# The Mining Journal

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 390 -- Vol. XIII.]

LONDON: SATURDAY, APRIL 15, 1843.

PRICE 6D.

TORTH TOWAN MINE, St. Agnes, Cornwall.—The SALE of this MINE and MATERIALS, advertised to take place at the Jamaics Sections: is London, on the 19th inst., is POSTPONED till further sotice. B. P. LETCHER, Parser.

HIGHLY IMPORTANT SALE.

FENTON-PARK COLLIERY, STAFFORDSHIRE POTTERIES.

TO COAL OWNERS, ENGINEERS, IRON FOUNDERS, and MINE AGENTS.—JOHN HIGGINEERS, IRON FOUNDERS, and MINE AGENTS.—JOHN HIGGINEOTTOM respectfully announces that he is favoured with the commands of the Penton-park Colliery Company to DIS-POSE OF, BY PUBLIC AUCTION, on Friday, the Dist day of April, the entire of their powerful and valuable STEAM WINDING AND PUMPING ENGINES, BOILERS, PIT GEARING, CHAINS, ROPES, MACHINERY, and IMPLEMENTS, recently in use at that important collery, the lease of which is now terminated.—The sale to commence at Eleven for Twelve o'clock precisely.

Ollers, PIT GEARING, CHAINS, ROPES, MACHEN, RY, and IMPLEMENTS, contry in use at that important colliery, the beas of which is now terminated—be sale to commence at Eleven for Twelve o'clock precisely, ot.

Four small cast iron spar, wheels,
One ditto, 7 feet ditto.
One ditto, 7 feet ditto.
One ditto, 4f. 6 in. ditto.
Four small ditto.
One flat rope pulley wheel, 2ft. 6 in. diameter.
Cast-iron grindstone frame.
One spur-wheel, 6 feet diameter, with shaft, 16 feet long.
One the ditto, 7 feet diameter, with shaft, 16 feet long.
Driving wheel shaft and crank, to match lot 10.
One Thob, 13 feet beam by 8 ft. 6 in. standard.
Double bell crank, to work 4-feet stroke.
One cast-iron winding engine, beam 13 feet long.
One cast-iron winding engine, beam 13 feet long.
One cast-iron from connecting rod, 4 feet long, or cast-iron from the feet with the feet long one cast-iron or linder, 6 ft. 6 in. long, 32 in. diameter.
Wrought iron open topped bolier, 6 feet diameter.
Two tions of round iron chain.
273 yards of flat chain.
One windbore and short pipe, 10 in. diameter, and two doorpieces.
Twenty cast-iron pamp trees, 15 in. diameter, and two doorpieces.
Thirty-three cast-iron pamp trees, 15 in. diameter, and two doorpieces.
Thirty-three cast-iron pamp trees, 11 in. diameter, and two doorpieces.
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Thirty-three cast-iron pamp trees, 11 in. diameter, and two doorpieces.
There cisch doorpieces, two bucket doorpieces, two windbores.
A portable direct acting pumping-engine, 63 lond cylinder, 8-feet stroke, by the cast of the control of the co

cills and boits.

Two pit frames, palicys, and waggons.

Wrought-from waggon abaped boiler, 12ft. 6 in. by 6 ft. 6 in.

An atmospheric winding steam-engine, 30-loch cylinder, with air-pump and confederer, two boilers, steam and fred pipes.

One pit waggon.

A useful atmospheric winding steam-engine, with condenser, 234-loch cylinder, cast-iron boiler, virum and fred pipes, winding drum shaft, and arms.

One weighing machine.

One ditto ditto.

One ditto ditto.

has different manual medical difference of the first state of the firs

VALUABLE MINE SHARES, in Flintshire.—TO BE SOLD, BY AUCTION, by Mr. JAMES WILLIAMS, at the White Borse Hotel, in the own of Helywell, in the country of Fliot, on Wednesday, the 19th of May, at Two 'clock in the afternoon, sudject to such conditions as shall then be preduced, and

howe of Helywell, in the country of Plint, on Wednesday, the 18th of May, at Two o'clock in the afternoon, sadject to such conditions as shall then be preduced, and in the following lots:

LOT 1.

THERE SIXTEENTH SHARES OF THE TERPYN LEVEL LEAD MINE, situate at the east end of, and adjacing, the celebrated Talargoch Mine, in the country of Fint. A strong vein of one has alwayd been discovered, by means of a level, but that not being deep enough to unwater the mine effectually, a second, and deeper, level is now deviver. This mine is in one of the best mineral district, and its extension of most promising adventure. The ground leased to the company computes spwards of for access.

FIVE TWENTY-NINTH SHARES OF THE TALACRE LEAD MINE, which is a continuation of the above, and is worked by means of an old level, which has been recently operand to one of the voins producing over. Another level is new in progress, and has already been driven appears of 600 yards, with every promper of cutting another vein in a short time. This mine is considered a very valuable one, and there is every reason to believe it will very seem be in profitable operation. The ground issued to this omnipany comprises upwards of 800 acros.

LOT III.

POUR SIXTEENTHS OF THE BRYNFORD-HALL LEAD MINE, on the west and of, and adjoining, the well-known Milwy Mine, ster Holywell.

LOY IV.

FIFTY-EIGHT FIVE-T-WELFTHS OF AT SHARES OF THE HOLYWELL LEVEL MISSE—near Holywell, adversable.

Parther particulars may be obtained on application to Thomas Harrison, Eng. & These Steries and Son, successful.

MAESTEG IRON WORKS AND MARGAM TIN PLATE ALSTEAN IRON WORRS AND MARGAM TIN PLATE self-massing properties. ARE FOR SLLE, BY PRIVATE TREATY, up to the 24th April tool. The Macadeg Works consist of two binst-farmaces, with views-engine, of 6th borse power, and have an ample supply of coal and from one, catending under opwards of fitting treatment of the property. The Margam Tin Works are adapted to the make of fitting property. The Margam Tin Works are adapted to the make of fitt herother property. The Margam Tin Works are adapted to the make of fitt herother property. The Margam Tin Works are adapted to the make of fitt herother need to this property. The Margam Tin Works are adapted to the make of fit herother need to plates per work. The water-power is considerable, and the whole of the menthancy in ground working order.

Principled particulars may be had on application to Mr. David Sowkand, solicitor, White Line court, Cornelli, London, or to fit. Win Liewellyn, solicitor, Neeth.

Other to parinhees must be seed treated, indertend, "Proposels for Porthanc of the "Seal" on to before the pick application.

TO BE SOLD, BY PRIVATE CONTRACT, the BOTSTONE of the very VALUABLE MACUBERERY consciously of a powerful WAYER. White Literary passes of its leads promps, twenty parts of a leads promps, the algorithm of a leader promps, and fifteen peads of 12-dish promps, the algorithm with reader parts of a leader promps, and fifteen peads of 12-dish droppears, with arms early profiteen with reader and leaders, and temperate provinced cranes, experience, with arms early profiteen made the and telescope to our set of exceptions believes, and commercial control of the cont

NVESTMENT.—Mr. ENGLISH is authorized to negociate for the INTEREST of ONE-THIRD in a PROPERTY, which not only pays for the INTEREST of ONE-THIRD is a PROPERTY, which not only pays to per cent. on the capital simployed at the present moment, but holds out addings to the extent of threefold its present returns. The som of 2000 will be intend, merely for floating capital, on the advance of which an interest, to the not of one third, will be at once secured in the property, on which nearly of to, we been already expended.—For particulars apply personally to Mr. English, 26, it-street, London.

WANTED, A PARTNER, with a small capital, in an ENGI-NEERING ESTABLISHMENT, in the centre of a ceat field, and within a short distance of a shipping port. One who could reader assistance in the manage-ment would be preferred.—Apply to Mr. English, office of the Maning Journel, 26, First-street, London, of whom every particular may be obtained, and reference given to the principal.

CRUSHER.—A COPPER CRUSHER IS WANTED,

CULLENTRAGH PARK LEAD MINING COMPANY.-Capital 25000, in 1000 shares of 25 each.—Deposit 2f 1 in, per shar Tale company is formed for the purpose of working the veins of the cell LEAD MINE OF GLENMALURE, in the country of WICKLOW, in Ireland into of their extension into the adjoining act of Cultentragh Park, which is by the Earl of Meath, at a Royalty of 1–16th, and possesses ample water product other local advantages.

BLUE LIAS LIME.—A DEPOT is OPENED for the SALE of the ABOVE ARTICLE, both LUMP and GROUND, for concreting and cement, FROM Ma. GRRENE'S CELEBRATED QUARRIES, Southam, Warwickshire, and, in consequence of the reduction of tonnage on the canals, will be OFFERED at the SAME PRICE AS LIME FROM DORKING.

Blue Line Wharf, Padingeton.

N.B.—Some blue stone, and blue and white diamond paying, for floors, from the same quarries.

RON TRADE .- TO CAPITALISTS .- Referring to my adver-RON TRADE.—TO CAPITALISTS.—Referring to my advertisement in a former Number of the Mining Journal, hearing an invitation to Capitalists to Join me in the erection of Binat-Furnaces and Mills, in the centre of Germany, for the manufacture of 16,000 tons (per annum) of rails, wanted for the construction of the German railways, I heel to state, in receipt to questions put to me from various quarters, that MY MINING PROPERTY, for the service of the establishment proposed, CONESTE of COAL—PIELDS, to the extent of three English square miles, in the largest of which there are two strata of excellent coking coal, of serven to eight feet and of six feet inkinness. My ORE-FIELDs are the largest and most valuable in all contral Germany; they cover an area of more than thirty English square miles. The creater of the cover and the 4th of 6 per cent. metal, and in quantity they are librally inchannible.

Persons who wish to treat with me beet come over, east spring, and inspect property and incalities. The creat with me best come over, east spring, and inspect property and incalities. The first with me heet come over, east spring, and inspect property and incalities.

Proprieter of Mines and Manufactories, it Hildburghausen, in Saxony.

R USSIAN STEEL IRON—" OLD SABLE "—C C N D,—
The UNDERSIGNED being the SOLE AGENTS of the Messer. DE DEMIDOFF in England, the above MARK OF HEON can only be OBTAINED through
them. GRAHAM BROTHERS, 18, High-street, Holi.

POR SALE, by PRIVATE CONTRACT, on the ROSEWALLRILL MINE, one and shalfenile from 8t, Ivw, in Corowall, THRER STEAMENGINES, all new only three years age; No. 1, a 36-inche cylinder PUMPINGENGINE, b-foot stroke in the cylinder and 7-feet is the pump, with all wood work
complete, including doors and windows and first piece of connection-rod, No. 2, a
STAMPING-ENGINE, on Simits combined cylinder principle—4b-horse power
the consumption of coals with this engine never exceeded 2d lbs. per house power
per hour; No. 8, a WINDING-ROGINE, 2b-inch, double power, Bondinon and Wait
engines—5 feet stroke, with winding apparatus (from) complete. The whole of these
engines are on the most moders construction, made of the best malerial and workmanship; are only one and a half mile from a good chipping port, and may be had
very cheap.—Application to be made to Mr. Nichchia Treinnick, of Camborne, to
Mr. James Signs, engineer, at Redruth; or to Mr. English, 2c, Fiest-street, London,
Redynlip, Dec. 5.

TO ENGINE-BUILDERS AND PUMP-MAKERS. A PALMER and PERKINS PATENT PISTON, filted in a 15-inch possible bearing and perkins? PATENT PISTON, filted in a 15-inch possible seeks any day AT SCOTT'S WHARF, SOUTHWARK-BRIDGE, Seakedo, this application of 11, there is no dustry an ordinary amount of friction—as seated by 287—in reduced to 18. if these pictors were fitted to the six-posmp of rine and other condensing, engines, the effective power, or soundary of field, would materially increased; the larger the engines the more manifest would be the bed

MR. JOHN KYMER'S PATENT FURNACE, whereby an ECONOMICAL APPLICATION of FUEL is RFFECTED, with EAFID EVAPORATION, and WITHOUT SMOKE.—A forware, on this construction, is excepted, and at work, at hierare. Taskiy and Cu.'s, 4b, Minories, where it may be seen, by cards, to be had on application to Mr. J. M. Buckey, 7l, Cornhill, or Mr. H. English, Mining Journal Office, 26, Flect-atent.

WEEDDALE PATENT DRAIN TILE AND BRICK

In social being well known. It is only accounted to a few of the parking except advance spready constituted and now in progress. On the Lemines and General Reconstruction, and form of the Service and Service and Service and Service and Service and Service Reconstruction, London, Aridine, Agriculture, Michael Service, Service Reconstruction, Service Reconstruction,

BOLTON AND PRESTON RAILWAY COMPANY.

TENDERS FOR LOANS ON MORTGAGE.—The directors of this company are prepared, under powers of their Acts of Parliament, to RECEIVE TENDERS for the LOAN of MONEY, in sums of not less than 22%, and for terms of three, five, seven, or ten years, and to GRANT MORTGAGES of the said undertaking, and of the raise, tolks, or monies arising therefrom, as securities for such loans, bearing interest at the rate of 2 per cost, per annum. INTEREST WARRANTS, but the whole term for which the lean shall be made, will be delivered to the lenders amy with the mortgages, and he made payable half-yearly, at the company's bankers in London, or looking, as may be preserved. The tenders are to express the same and the form of years for which the same are proposed to be int, and to be addressed to the secretary, at the company's office, Bolton.

By order of the board of directors,

Bolton, August 26.

ONDON and BIRMINGHAM RAILWAY.—ALTERATION
OF TRAINS—The public are informed that, on and after MONDAY, the
of MAY next, the following ALTERATIONS will take place in the TRAINS on

mediate ofations.

The 3 p.m. Down Train, which now stops at Aylenbury, will go on to Wolverton. The 12h, p.m. Up Train from Illriningham will be limited to drat class cardiagus, private earringes, and horse boxes.

For farther particulars the public are referred to the Time Illis, which may be had on application at the company's offices, at Kuston Station; Spread Sagle, Grace-church street, Cross Keys, Wood-Street, Chesspaide; Swah, with Two-Necks, Laddance; George and Blue Boar, Holborn; Golden Cross, Charing cross; Spread Eagle, Regent-circus; and Griffia's Green Man and Still, Oxford street,

Office, Euston Station, April 12.

ONDON AND BIRMINGHAM RAILWAY .- CONTRACT

as I we've o' clock, to RECEIVE TENDERS for the CONTRACTS for the fullow

1. To make the Warwick and Learnington Branch Railway, from the Cover

Station of the London and Birmingham Railway to Kenitworth Common.

2. To make the Warwick and Learnington Branch Railway, from Realise
Common to the terminon near Learnington.

Draft of the contract, with plans and specifications of the works, will be read
happe lon of the resident engineer's office, Canaden-town, London, on and a
May 1.—Printed forms of tendure may be had at the resident engineer's office,
no other will be attended to.

The tenders must be delivered sealed, addressed to the secretary, and onder
'Tender for Works,' of at the office, Easten Station, on or before Ten e'clock, of
the 12th of May, and parties femiering (or obliver duly authorised by them) a
attend in person at the time of smeeting.

The parties whose tenders are accepted will be required to enter into a hand, view naticities, for the due performance of their contracts, in a penalty not less t
its per cent, on the gross anse contracted for, and the names of the proposed at
tice are to be specified in the tennier.

The destroate will not biast themselves to accept the inwest offer.

The contractor, if he require it, with he far nished by the company with a colespant of his contracts, at his own expense.

By order,

Office, Easton Station, April 12.

RICHARD CREED, Secretary

Office, England Station, April 12.

\*\*HEFFIELD, ASHTON-UNDER-LYNE, & MANCHESTER BAILWAY.—CONTRACT FOR WORKS.—The directors of this company will meet at their office in Manchester, on Wolnesday, the 26th inst., to RECHYSTENDERS for the execution of the CARLCOATS CONTRACT, commencing at the analysis or streams of the Summit Tournel, at a pag, branched 21 miles in chains, and termineding at a seg, branched 21 miles in chains, and termineding at a seg, branched 21 miles in chains, and termineding at a seg, branched 21 miles and it chains, and termineding at a seg, branched 3 miles in the same transfer of the same with all the exacutions, embracking and maintaining this portions of the railway, with all the exacutions, embracked, but he laying, balakating, only display the permanent way, and fadding all labour and materials requisite for the came, except the rails and charge sile labour and materials requisite for the came, except the rails and charge sile labour and materials requisite for the came, except the rails and charge sile labour and materials requisite for the came, and a draft form of contents, conditions, conditions, conditions, and a draft form of contents of traders may be obtained.

The benders to be sent in to the secretary, at or before One of violet on the above day of letting, and particle tendering, or come one duty satination, will be required to be in affirmation.— The parties whose tender is accepted will be required to a be in affirmation.

The benders to be sent in to the secretary, at or before One of violet on the above day of letting, and particle tendering, or come one duty satination, will be required to be in affirmation.— The parties whose tender is accepted will be required to a be in affirmation.

By order,

J. PLATFORD, Secretary.

J. PLATFORD, Secretary.

SHEFFIELD, ASHTON-UNDER-LYNE, & MANCHESTER RAILWAY.—CONTRACT FOR SUM MIT TUNNEL WORKS.—The directors of this company are prepared to RECRIVE TENDERS for the COMPLETON of the SUMMIT TUNNEL, near Wondless, on the above lags of railway.—Fines, earthines, performs, and draft forms of contract may be seen at the Railway Office, 15, Finesadilly, Manchester, on and after Monday, the icts inst. Every facility will be given to parties whelling to inspect the shafts and driftways previous to tendering and Mr. Farden, the aminiated engineer of the employ, will be in attendance on the works to accompany contractors and after and will give all the measuremy information respecting the strain through which the driftways have been fugued.

Sealed underen, addressed to the overetary, to be next to the office, 15, Figurality, Manchester, at or before One related to the distractions of Wedmenday, the join losse, nifer which these an incased will be received.

Frieded futures of tender may be obtained on application to the acceptary, and no other on the conducting, or occase office persons duly autilization to themselves bound to acceptable by them, will be required to be to alternature at the Manchester office on the above day and time of igiting

J. PLATFORD, SOURSEY

By order,

HEFFIELD, ASSITON-UNDER-LYNE, & MANCHESTER BLANK, "The directors are proposed to GRANT MILLS AY." THE DEEM FOR LOANS. "The directors are proposed to GRANT MILLS AY." THE DEEM FOR LOANS. "The directors are proposed to GRANT MILLS AY. In second of the provers of their Act of Postionness, FOR LOANS OF MILLS AY. In second the option of the local at 100 cash, and for patients of the region of the local provers, at the rain of a per count, per analysis will be paid insil proving, for which indeceds warrants will be given for the partial agreed on, payable at the company's benders in London, the accidentary of the fill of the office of Mineric Porture and their distribution of the fill of the office of Mineric Porture and their distributions, Shimilian's Mineric Mineric Proposition and Storenson, Manchester, or Mineric Mineric Mineric Proposition of the Mineric Min

MIDLAND COUNTIES RAILWAY.—The directors are all READY to RECEIVE SEVENTERN PROCESSED POUNDS on SECURITY of Event LOAN SIGTES, for Stone years, at inferent after the rate of 4 per count, per count, to be unit had yearly.

Loicoute, there is a superior of the superior of

ONDON WOOD PAVING COMPANY. - At a General

#### THE HYDRAULIC RAILWAY.

It is the previous of the editor of a scientific journal to direct the attention of the public to new lowestions which, premise to develop fresh applications of the arts, and any branches of manufacture. Hence, we have corrections of the arts, and any branches of manufacture. Hence, we have corrections of the statement of the public of the superiors. Hence, we have corrections of the statement of the superiors of the superiors of the statement of the superiors of the statement of the statement of the statement of the statement of the superiors of the statement of the statement of the superiors of the statement of the statement of the statement of the superiors of the superiors of the statement of the superiors of the superiors

basis. We believe the objectious that have been thus suggested are principally the three following. (We shall be hoppy to be informed if there are eithers):

First. It is subjected, that, in sense iosalities, the supply of water requisite to work part of the machinery of the hydraulie railway may not be easily alianable. This introduces the question—What supply of water will be requised? To charge a section of frequisive plying of arventy pards in length, and one front in diameter, sensy it is subject will be wanked; and, to convey to the mind an idea of the ameliaces of the built of this supply, we will mention that the cube root of 1fd is 5'ants, which, of course, expresses the cube that whold cantain this water. But this supply, once provided, is not to be lost—at inest, in all iosuitities where it is worth keeping; and this remark, by the way, will also apply to the condensing water for the stationary-engines, which would, in all such cases, he run off is the usual manner into a dam, through the divisions of which it would be made to whal its way, to assist it is concling, after which it would, of course, he again pasced through the condensor. As respects the water for the hydraulis propulsion machinery, it would, after having done its work, he run buck again to the first power mitted to a first power mitted to supply only the ions by evaporation and leakage (if any) is the dealines. It will occur to every one, we think, that this triding quantity of water may be obtained either from the derienage already existing on the lines, from small springs adjoining, or, if there is no small aprings adjoining, or, if there is no small apring upon our, from one at a distance—the water being conveyed to the power station by an ordinary small leaden pipe. To most the remost the employed thin that no water could be procured from any of these sources. Be it on 1 but do we not all know there are seek things as wells, anny of which are applied in that no water tonks, and hydraulie propaled. Let the wells be found in many pi

is a great any longer; Mr. Shortieworth does not propose to extend his railmy system across the anady desects of Arabda.

Boundly. The friction of the water in its quick passage up the propulsion
ignes, has been considered of certime amount. The real queetlon demanding
attention clearly is, the quantum of actual free power which the hydraulic
patem can develop, after making full allowance for the friction. If the
monant of power be much greater than that which any other system can exidate, and if it be produced at considerably loss expense, the above objection
if ally answered. And that Mr. Shuttieworth's statements are correct,
which undertake to demonstrate that the power of this system will be much
reader, as well as cheaper, than that of any other, we can entertain but little
makit; otherwise his published enheulations and scientific de-factions wends
are been published in question. If much have been to, considering
be large meed of approduction this towestion has received in different quarrea. Parther more, we consolve the putsates has accreate done justice to
is system in the respect; and we can only attribute his perfect willingues
a allow grount deductions for the friction, from his knowledge of the great
monant of power he has of his dispensed after all his work is done, I firetime
read in a the mon-cleantic, thick; the probable difference being, that, in the
state at the mon-cleantic, thick; the probable difference being, that, in the
area at the towed of the current, in its runk up the pipes, will be belof and
which y carded away, but strong, in son-stantic fluids; while the coliner, or
the while he has do in section of the twenty in the case of the children
while action on the state is will be more considered. The fooling of the
area of the boad of the current, in its runk up the pipes,
will be been distract the will be more considered the other, or
water makes with the state is will be more considered consider themdres particular in action as the state of a she consider the outparticular we do not observe that the able inventors of the atmospheric railway have debit their system for etertions. If these gentlemen consider them pentified in setting asside such acts of exerce—and, considering their practical experiment, they may have good geomade for it—we do not by Mr. Niketile worth observed out the same. The patenters of the aspectment them not be served by them on their experimental line at Warmwood Scrubbs, as abserved by them on their experimental line at Warmwood Scrubbs, tend to asserved by them on their experimental line at Warmwood Scrubbs, tend to asserved by them on their experimental line at Warmwood Scrubbs, tend to asserved by them on their experimental line at Warmwood Scrubbs, tend to asserve to the second by correct in assertion. We emissed by the expert of an which were necessarile for most as asserted for mostly. It appears to be the opinion of some parties that, conting off from after abstract to the the opinion of some parties that, conting off from after acts in the second to the second by the mostly of the second of the second of a second well with our present fad authors of the second or treasel. This is but accord to a received a defining in an action of treasel, the second or all the thing from a templete rount. On a high rount the rebanding on to very good; on a college in to college to the case, under these circumstant them to the acts of the ac

see the bounts are put down; bence, a train, under these circums when the power has been out off, will ran, if loft to timelf, perhaps a miles tolders shopping. We are all well superactors with the serious which have, at different times, occurred on callways, from the groot according to which have, at different times, necessary or callways, from the special or a frient mount time after the propelling power (the stones) has been end off, and sum with all the bests after the propelling power (the stones) has been end off, and sum with all the passed in a testic when some it is acquired, to concentrally, all that is received in a testic when some it is acquired, to concentrally, all that is received in a testic when some it is acquired, to concentrally, all that is received in a testic order of the same the application of this small factor, and its being end off for a very finalized distance, is all that applies of the same is question. In estimated that primary is the same in the same in the testing end off for a very finalized distance, the linearcae force of the mountaintees to the testing charled by a final same that distance is a final same to the same is a testic to the same of the same of the same that distance is a final same to the same of the same of the same time the same time that distance for a final instance in a singleta, the which has entired force to the same of the same interesting force where end of force is the fixed inspection power; the mountains in the fault enterior is, in drappine of the issue of gravity, and the enteredition of the last, three militor, or more, ence the consolery; and, when it alights, the removement is importing force to do do and the same time, three militor, or more, ence the consolery; and, when it alights, the removement is imported to do alightly unitarity limit the same fact, three militor, or more than the simple with the same in alights, the removement is alighted. The removement is alighted to the same of acquiring the same time, the same of acquiring the same time. If it has, however, the distinct points the same time that acquired to the same time that the same of the power testic the same of the sam

feature is our railway system which would intonish the public as much, at the present someont, so did the opening of the Liverpool and Manchester, with the effects it exhibited, in 1600. We man, we hope to see the great power of hydraulic proposition applied to overcome inclines, as story that they adjute be convectly tersond bills. In fact, when this system has been deep predically proved to be affected power for our arry miles work, its application to isought-mand inclines, to pass ability mund the bills, and its carry our railways withrough the most manntainous districtes, notarraily appears to be the next step. Then the researce east of tunnels will no more stop the formation of new lines, for they will be no longer contemplated.

We do not recollect any new in swintion the principles of which have been less a matter of ensironersy than of this. Indeed, spenking in a scientific same, we are not assure that a swead has been advanced before the well-informed public (who are capable of testing its accuracy), purporting to question the principles on which this invention is founded. A few vagnes, was opported examines, in our military instance only, have been household, and these have been so totally apart, both from the facts and data of accisance, and the observed haus of Nature, as request the action of fluids, as in have been found unworthy of the notice of the learned world. This we attribute to the great ears and labour of the patrales to render his lovention perfect, as near as possible, before soliciting public motice to it, and to his evident desire to advance and claim nothing for the hydraulic railway which should not be in accordance with admitted actantific date, and assectioned by the first authorities. Canadering the present great abundance of cupital, we expect ore long to a set his invention placed in a position to have its merits fully tested, and its powers condered conductive to public convenience, while we trust the results may prove equally advantageous to private enterprise.

#### PROCEEDINGS OF SCIENTIFIC BODIES.

PROCEEDINGS OF SCIENTIFIC BODIES.

PROCEEDINGS OF SCIENTIFIC BODIES.

GEOLOGICAL SOCIETY OF LONDON.

APRIL 5.—The PRESIDENT (Mr. Warberton) in the chair.—Mr. Muncurson amounted a munificant densation to the society from Lord Francis Egetton, consisting of the original drawlogs of the great war of Professor Agassis. On Fasti Fishes, purchased by his Indship for 5001, in order to enable the enther to putlish his researches. The following papers were read:

1. "On the Structure of the District on either side of the North Down of Servey," by R. Austra, Sec. G.S.

2. "Notice of the occurrence of Beds containing Fresh-Water Fossils in the Onitie Coal-Field of Broors, Santherlandshire," by Mr. A. Robertson.—During a short excursion to the colitic district of Satherlandshire, in the course of last summer, Mr. Robertson discovered, among the reafs of shale and ends fresh-water fassils, which have higherto escaped notice, and are approachable only at low water. They lie beneath the bods of calcarence of Cloughton, and other localities in Yorkshire. The appearance of Cloughton, and other localities in Yorkshire. The appearance of Cloughton, and other localities in Yorkshire. The appearance of the genera Lepidotus and Megalurus, mollouses of the genera Paludian and Cycles, and crustacea of the genes Cypris. The lower bed of clay, with fassils, about thirteen inches takels, and contains the remains of the genera Lepidotus, Aerodus, and Hybodus; mollouses of the genera Paludian, Perus, Usio, and Cycles; the same species of Cypris as in the upper bod, and minute fragments of carbonised wond. Nearly the whole mass of both breis consists of fascils. No. marine feesiels, with the exception, prohaps, of the scales of Lepidotus, are found in the upper bod, and Mr. Robertson regards it as a freshwater deponit; which the mized and nature of the fassils of the lower one conclusively point out lit extuncy paties. Perus Marce Bods in the Politics of Horas, Sutherlandshire, and on the British Equivalents of the worker has the subscience

its uppermost part is of the same age as the lowest Necessian strata, and thus we may connect that portion of it with the createrons system.

INSTITUTION OF CIVIL ENGINEERS.

Arait. it.—Juanua Field, V.P., is the chair.—The meeting was commenced, by reading an appendix to Mr. Machain's accumat of the Glian, ow water cents, which was read at the heat meeting. It described the construction of a reservoir for supplying the new parties of the city, situated nearly four miles from the works, at a height of nearly 16d feet above the Cipid; in order to take the a'most advantage of a limited space, the sides of the recervoir were made of coat. Iven places, connected with a floor composed of Araberoth paremost, fintened together with iron cramps, and the joints pointed with coment; it is supported upon connecutive layers of said, ciny, and rubble; the interior dimensions are 123 ft. long, 35 ft. 6 in. wide, and 11 ft. deep, and the whole is covered by those wronglit-iron reads, cach of 18 ft. 6 in. span. A drawing was cathibleud in the Great Connedons That crowed in the Friend of Malia in the years 16t1 and 1848, by Mr. W. L. Arowsonith, A.I.C.E., onget introduct of Government works. It is the largest modern covered tank in Europe, as it will constant 15,1000 time of water; it is desisted to from part of the projected water works for supplying Malia with good water, a description of which was promised.

A better was read from the late Sir John Hobiana, giving a shart account of the Artesian well all Governite over radicaling the various diameter attendant on the work before the water was readed, at a depth of 1794 foot English, and at a cost of appeared of 12,000d, startling, the latter proceeded to give his objections to the lates of the contortions suffered by the copper table being due to the Alto Mondy with Moso, at a depth of 1794 foot English, and is withous dies in without some of war reading the water of the highest promps downland for thirty fiet, dipping into the action of the water and the fieth of the fieth

pair, and it is started that the duly performed in as 70 to 100.

Some specimens were presented of servers cut to lather constructed by Moreon. Shanks and Ch. (Johnstone, seen Philospy); I they were sent by the late. Six John Habitone, who described the principal advantages of the tartenges mount of the lathe to consist to the contour acting charing the insurance, as well as the convenient, of the albito, and in, when cutting thering the insurance, the contour acting charing here were not be the feeling alternately shaped in the sixth opposite to the tools which was in action, that good work created be produced with austic fields as the reduced to the consiste to the southern acting being severes, their distributions, which worked by dies with compression. The specimens were cleanly out to calculate the meditary quality of secure. It was reconcious that two targetimes to the serving dies have, and therefore your actions your actions produced by Mr. Whitweet of the first having home in our at Mrever. Shandury and Platfu was accumulated by first without conspicuous and that the serving dies invested by Mr. Whitweet of the first having them in our at Mrever. Shandury and Platfu was accumulated by first without conspicuous of the first having home in our at Mrever. Shandury and Platfu was accumulated by Mr. Bark and then proposed meaning a distribution of the maxima and placed the Landur Wood Platfu was accumulated by Mr. Bark and these proposed meaning and produced by Mr. Bark and the proposed meaning and the desired produced by Mr. Bark and the proposed meaning and the first handure and Platfu was accumulated by Mr. Bark and the proposed meaning and the first handure was a citarly in the serving dies invested by Mr. Bark and the proposed meaning and the first handure was a citarly in the serving dies invested by Mr. Bark was a constituted by Mr. Bark was a constitut

the comet in March, from J. H. Manerly, Esq., Gosport.—5. A paper on the assessment in March, from J. H. Manerly, Esq., Gosport.—5. A paper on the assessment in the surface of the meteorological day was then discussed, and opinions solicited on the three following queries:—Whether meteorologists had better adapt the civil day, the astronomical day, or a day dated from saferies, and terminating at sunset, and it was resolved that, to affect every consideration possible to this important subject, an invitation should be insected in the next Number of the Queriery Jeannai of Meteorology, adiciting opinions on the subject, and letters addressed to the Editor, No. 36, Foleypiace, will meet with every attention.

## PRACTICAL AND SCIENTIFIC ASSOCIATION FOR STREET IMPROVEMENTS.

PRACTICAL AND SCIENTIFIC ASSUCIATION FOR STREET IMPROVEMENTS.

The first annual report of this useful and highly meritorious institution has just issued from the press, and is of a very encouraging character; an intense inferest has been awakened throughout the kingdom towards the amelioration of the public reads, as well as the admitted occasity of the application of acientific principles in their construction, so as to ensure their being better made, and kept in better and cheaper repair, accompanied with an efficient system of drainage and cleansing. No expense or trouble has been spared to acquire a knowledge of any useful facts connected with the formation of carriage-ways, particularly with regard to wood parenment; its power to resist the effects of decay, and to contend against the wear and tear of daily traffic, on which points much valuable information has been obtained, and many new here received from many of the foreign ministers and consuls, is London, to afford every facility for obtaining a knowledge of the formation of the reads in foreign constries; and a museum, which has been established at 20, Versitzel, contains specimens of every description of pavement, various improved horse-shoes, plans for preventing slipping on wood, and numerous other articles connected with street improvement. One of the most important parts of this report relates to the

street, contains specimens of every description of pavement, various improved horse above, plans for preventing slipping on wood, and namerous other articles connected with street improvement. One of the most important parts of this report relates to the

West STREET-SWERFINO MACHINE,

invented by Mr. Whitworth, of the firm of Messrs. Whitworth and Co., of Manchester, in which town it has now been in use upwards of twelve months—a part of the township having been assigned by the commissioners for the trial of the machine. The district included several principal thoroughfares, containing 30,000 square feet of street surface; by the contract, it was to be cleansed three times of these times of there in the contract that can, or at one fourth the former rate. This district soon presented a striking contrast with the other parts of the town; and, before the contract had ex, ired, a memorial for its renewal and extension, signed by more than a hundred of the principal inhabitants, was presented to the commissioners; the contract was accordingly renewed for twelve months, and the district excited to include 90,000 square yards. This machine consists of a series of brooms, made of the fibre of an American plant (passiver), suspended from a light frame of wrought-iron, hung behind a common cart, the body of which is placed near the ground for greater facility is loading. As the cart-wheels revolve, the brooms successively weap the surface of the ground, and carry the soil up an incline or carrier guitor, at the top of which it falls into the development of the greatest street and the second part of the greatest street, and the second part of the greatest street, the cart is now as a sirely proceeding at a moderate speed through the very simple contrivance it is dropped, and takes away by a skeleton cart, fresh bot he ingales, and in very weath weather, in three misutes and a half.

We were present at the offices on Monday, the 10th lastant, when Mr. Whitworth altended, the surface in large thas a sirely in the prevent

## LONDON WOOD PAVING COMPANY.

LONDON WOOD PAVING COMPANY.

A public meeting of gentlemen who are advocates of Mr. Perving's system of wood paving took place at the George and Vulture Tavera, Combill, on Thursday, the 13th last, for the purpose of taking measures to form a company to marry that plan into operation,—The meeting was rather numerously attended, and the chair was taken by GROAGE Downson to form a company to marry that plan into operation,—The meeting was rather numerously attended, and the chair was taken by GROAGE Downson wast., Eq., who said that, amongst the advocates of the system, he had taken a warm interest in the venigers of wood paving, and had come to a remaintion, that it was the changest and health of the isobalitants of the meetropolis.

Mr. Lan Struvinous there andered into a lengthemed explanation of Mr. Purting's system, previous in which he observed, that he would rather have toom subjected to a course of atomicalism from the gentlemen persent on the subject. He said that Perring's system made up every deficiency in the Cusoit de Leini "—derit, by forming a secure foot-hold for houses and other animals, and was applicable to the streppent structs in London; percoadly, by broading or heading the joints at the surface, as that the faceler or softer portions of the blocks do not run in continuous fines, but intersect each other throughout, healths which, where one surface, he intersect each other throughout, healths which, where one surface, he intersect each other and be able to the structure of the blocks do not run in continuous fines, but intersect each other many be used, as as to effect a great reduction to the tacket do not run in continuous fines, but intersect each other househouse in the surface, and, in a block of six inches deep, all order two inches and a half of audit material between the connecting points. In addition to this, proper allemence was made for a subscitzer of one continuous fines and a subscitzer of one other house, and in the portion of the surface, and into the new of the derivation.

METHOROLOGICAL SOCIETY OF GREAT BRITAIN.

Areas 11.—Greates Lacra, Esp., F.E.S. (was president), in the chain.

The minutes or the last meeting here and and confermed, W. Water Cat., Esp., William Engines, Esp., (William Esp., (Wil

# PROCEEDINGS OF PUBLIC COMPANIES.

PROCEEDINGS OF PUBLIC GONFARIUS.

THE MINERS' COMPANY.

The navuti general meeting of the properties in this company was held at the officer in Old Broad-airreet, on Employ, the six instant.

After the usual preliminaries and serval court, duly convered by notice in the meeting was a smute footware. Enq., Gavernor, in the chair.

After the usual preliminaries and court, duly conversed by notice in the meeting was an annual part of court, duly conversed posterior.

London Guzette, for the circular agreement proups, the Chairman and London Guzette, the court of the company's affairs to the think of the year ensuing. The perspected upon an actual taking of stock and in great the court of the company's affairs to the court of t

Huth, William Little, Hart Logan, John State, Euqi.—Thanks having been voted to the chairman, the miseting separated.

REAL DEL MONTE MINING COMPANY.

The adjourned meeting of the share and loan note holders in this company was beld at the offices, Duke-street, Adelphi, on Manday, the 10th inst.—the Mr. Waay in the chair.—The plan, as submitted and agreed to at the meeting on the 23d ult., was again brought forward for the counderation and conting on the 23d ult., was again brought forward for the counderation and conting on the 23d ult., was again brought forward for the counderation and conting on the 23d ult., was again brought forward for the counderation and conting on the 23d ult., was spain brought forward for the counderation and conting on the 23d ult., was mentioned, however, that some of them had sent to the proposition. It was mentioned, however, that some of them had sent to the proposition. It was mentioned, however, that some of them had intimated that, whilst they acquisesed in the measurer, they did so for the shareholders of the company. The said shareholders appeared to be of the shareholders of the company. The said shareholders appeared to be of the shareholders of the company. The said shareholders appeared to be of the shareholders of the precision of the two or three pertinacious agentismen who presented themselves at the former suretings, as opponents of the company. The said shareholders appeared to be of the shareholders of the precision of the two or three pertinacious agentismen who presented the massive at the former suretings, as opponents of the two should be allowed the participate in a portion of the prefits of the that they should be allowed to participate in a portion of the prefits of the that they should be allowed to participate in a portion of the prefits of the that they are to be greatly benefitsed by the very large concession and the that they were to be greatly benefitsed by the very large concession and fact, that they were to be greatly benefitsed by the very large

TINCROFT MINING COMPANY.

The annual general meeting of shareholders was held at the efficien, 44, tashury-square, on Tuesday, the 11th inst. Junners Gnout, Enq., in the last.—Mr. Stainant read the following report:—

community as they are eached to recognize their follow characteristics on this set point property. By perseverance and contry the mine to a decided imprive the process of control of contr

and Lê

Fili little

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The accessio were as at Do. Smissors last meeting, Dec. 20, 1841 Expensioners.	CLAST A S	Copper 42/3 2 4 74 10 11 11 Arms 27 6 12 3 4 75 12 11 Arms 27 6 12 3 7 6 12 11 11 11 11 11 11 11 11 11 11 11 11
Backet Con	F28,639 15 41	234,400 12 (1
Print Sections	200 F	blad cannon market
	-4,807 IS 7	enad or 1
	THE SAPI	Balance

bottom of the shall is now worth from 26, to 260, per fathons. I hope to shalt to the seventy follows here! By the end of this meant. The thirty fathons here! By the end of this meant. The thirty fathons here! has been attended on four west as, and communicated in, North Timcroft shalf, and since the driven thirty-one fathoms west of said shalf (ninety fathoms in all), has passed through several fathoms west of said shalf (ninety fathoms in all), has passed if the case of the ground; there are three pitches welling in the shalf of the one at its and two stills, from her. The present coal is more welling in the shalf of the one at its and two stills, from her three pitches are now working in the shall never the said shalf (ninety fathoms and two stills, from her in the cast end in at present small, unpredentive, and snapsuded till more properly contained; the house in the west could be twenty inches wite, producing more contained; the house in the west could be twenty inches wite, producing more contained, and any producing consocration and very promising—drivings at a per fathom, worth \$0.1 per fathom. The find thom here! has been extended, east and west from the shalf, forty-nine fathoms that, on an average, been worth \$2.5 per fathom—re lake in the last ten fathoms has, on an average, been worth \$2.5 per fathom—re sent price per fathom for diving \$6. The first year has higher to predict the said of extern cross-consens, but, ouving critics on a branch sufficient far to get late retiled country beyond the said cross-cours, we have been driving fathous their countries of the said of excess cours, we have been driving the south, to accertain if more lode was in that direction; after driving shout since for we cut into the lode protectary), which is two feet wide-one for the first grey or worth at heart 50.5 per fathom. I call this an important discovery, especially as we cut into the lode protectary), which is two feet wide-one for the first grey or worth at heart 50.5 per fathom. The first protect the hole of t

#8790 16 1

the mine, are as pool as can be exist. Croffy), at the same dependence of the adjoining mine (East Croffy), at the same dependence to the dependence of the object needs on the mine, although the south as manch much as 90°. For fathern, and I know not why it may not be worth equality as cauch much as 90°. For fathern, and I know not why it may not be worth equality as cauch much as we sink.

In the south usine, we have driven east arveral fatherns at the seventy-two, where have made a good discovery for tin and copper, which is likely to less worth out the sighty-case—have out some holes as it he seventy-two (Highbarrow south total the sighty-case—have out some holes as it he seventy-two (Highbarrow south loss) which is likely to yield a great dead of its and copper are. We are now driving must be the sighty-case, and find it in the worth from 10°. In the south part of this lose at the suphty-case, and find it in the worth from 10°. In the part of the south part of this lose, at the object finds extending, which will be worked in good advantage by and byte. We are rown criving a cross out south at the ninety failums good one groome. We are now driving a cross out south at the ninety failum good one groome. We are now driving a cross out south at the ninety failum good one groome. We are now driving a cross out south at the ninety failum good one groome. We are now driving a cross out south we shall have the drive levels, and have some it at the ninety, as it is likely to fail in with High disouth to rull R at the ion fathous break below, that it is likely to fail in with High disouth to rull R at the ion fathous break below, that it is likely to fail in with High disouth to rull R at the ion fathous break we find some rich burders, which is hurder of the mine are abovery anything with the augmented. The prospects is this part of the mine are abovery anything with the augmented. The prospects is this part of the mine are abovery anything with the fith-suight fathous break we are dividing a cross, out outs from ou

# THE MINING INTEREST-QUICKSILVER MONOPOLY.

From the readiness with which the English mining companies have always submitted to the exactions of the quickvilver amospolists who have, of interpretary, been in possession of the mines of Almaden, it would be imagined that years, been in possession of the mines of Almaden, it would be imagined that there was no second mine of the same description in existence, in which recovers might be had for the requisite supplies. Some years back, the or-course might be had for the requisite supplies. Some years back, the or-course might be had for the rate of from its, 6th to 2s, per the, and, even at tiols was farnished at the rate of from its, 6th to 2s, per the, and, even at tiols was farnished in the one large was the quantity concound that the Ampion Spanish American Mining Companies found the produce of their carriers. Spanish American Mining Companies found the produce of their carriers. Measure, Rothschild and Co. have had the command of the market, however, Measure, Rothschild and Co. have had the command of the market, however, Measure, British and the summary of the mining interest has been greatly aggravated, for, up to the borthers upon the mining interest has been greatly aggravated, for, up to the someoness rate of 4s, per the, and quite resembly, in consequence of the the consumer has been further advanced from 4s. In 4s. 6d, per the, or to the consumer has been further advanced from 4s. In 4s. 6d, per the, or to the consumer has been further advanced from 4s. In 4s. 6d, per the, or to the consumer has been further exceeding the collected large transported to the inquire whether assess they also describe the mining companies appears to have becomes a giver-ance of enforcient importance to give rise to the inquiry whether assess they also describe the mining companies appears to have becomes have about the total parties of the mining companies. Many subhide schemes have about the fall more quarkinoshe to the fall they have been hance which previous personned due to fissipal and the scheme, but offit they

ment of the direction for it qualst unamentary to enterpret your time by any characteristic for the contraction of the contract

ON CHLORINE IN METRORIC TRON.

ON CHUORINE IN METRORIC IRON.

The detection of chlorine in meteorie iron was the discovery of De. T. Jackson, of Boston. The mass found at Claiborne, Ah., weight of Jackson to be one of the original ingredients of the meteorite, and the pr. Jackson to be one of the original ingredients of the meteorite, and the pr. Jackson to be one of the original ingredients of the meteorite, and the that the mass examined by Dr. Jackson had acquired its chlorine from the that the mass examined by Dr. Jackson had acquired its chlorine from the that the mass examined by Dr. Jackson had acquired its chlorine from the chemical trials it might have undergone prior to its resching his hand chemical trials it might have undergone prior to its resching his hand of its in that of Guildford. The following fact, however, considered detected in that of Guildford. The following fact, however, considered detected in that of Guildford. The following fact, however, considered shakes the confidence of those who hold out for the extra terrestrial original shakes the confidence of those who hold out for the extra terrestrial original for a long time. The facture, a coarsely crystalline and shape, and of about 150 lbs. weight was accidentally discovered buried in the med near the end of Long When in New Haven, where it is supposed to have had for a long time. In New Haven, where it is supposed to have had for a long time. In New Haven, where it is supposed to have had for a long time. In New Haven iron began to assume the same deliquest the winter the New Haven iron began to assume the same deliquest the winter the New Haven iron began to assume the same deliquest the winter the New Haven iron began to assume the same deliquest water, the solution filtered, and treated with nitrate of silver, whereas water, the solution filtered, and treated with nitrate of silver, whereas water, the solution filtered, and treated with nitrate of silver, whereas water, the solution for the loss abundant, was obtained by the came professor of the mass by the el

chorume is evolved, and with which it combines as fast as the electrol proceeds. The composition of meteoric irons, and the situations in why are frequently placed, might enable them to obtain chlorine in a massimilar to that supposed in the two last-membioned cases.—Dr. Silkers Wood Paving, and, at the same time, preserve that boon which only the wood paving, and, at the same time, preserve that boon which only the habitouth of a crowind London thoroughfure can appreciate, "suban suggestion, which, should it be found impracticable, may, at least, a some more able person to consider the subject. "The plan I would subt an an improvement in the foregoing, is to lay down have of cast-iron, in parallel to the curbahone, with hands or samily projections, about an inch a on their super surface. General must be out between the lines of black receive the indented hars, the kustos of which, when Inid down, should jeet about a quarter of an inch (none or less) above the paving. By the main, horses will be conblict, with their present whose, to get a good of the ground, which, at the same time, the other parts of the parement of the ground, which, at the same time, the other parts of the parement is made perfectly smooth. The number of rows of bars must be regall be made perfectly smooth. The number of rows of bars must be regall to made perfectly smooth. The number of rows of bars must be regall to made perfectly such as part, in the middle and the cubetone; this woul would trave out the same, between the middle and the cubetone; this woul would row and part of horses to brid over, while the care would trave out the same, between the middle and the cubetone; this would rounding at any apprex. The bars, which may be half as such which, should road with premay perjecting down wards, the order to fix them which, should road with premay perjecting down wards, the order to fix them which, should road with premay perjecting down wards, the order to fix the premay of the parts of the parts and to such as a cach, we say a part a

He nervance of sources should await themselves of the apportunity to progress at Meatrs. Huthwen's workshops. Edinburgh CheSTRAM Consequences and Meatrs. Walter. We are glad to
the City of Dublin Strams-Packet Company have come to the de
of pissing one of their fine wears to the station between this per
Bridge. The public will thus have the accuracity of that company in
reputation, that everything will be done that one possibly add to
reputation, that everything will be done that one possibly add to
and onfely of the passengers who patronise their examor. The
and eafry of the passengers who patronise their examor.

Broph is a new and very fast wrasel, and her accommodations
one to wished, both for cakin and dark passengers, as there is
caking for the inter below the dark. bein is divided into five or
adds for the inter below the dark. bein is divided into five or
from foundering by outlinion or otherwise, but also add much be
from foundering by outlinion or otherwise, but also add much to
of the bail | and, in addition to those great preservations to have
of water is so small that, if she was thereone on a beach, her pasfor water is so small that, if she was thrown on a beach, her pasorse omit walk out of danger. She will be under the command
of the passengers are to be under the immediate curveillance of or
elevant for that expected guegous — Lipsymon Allicon.

Ton Pear, Araw Learry,—A new bind of illumination is glan

PROCESS FOR PURIFYING AIR—
The PROPRIETORS of the INVENTION FOR PURIFYING ATMOSPHERIC
AIR IN CORFINED PLACES, AND REPURISH IT FIT A ALL TIMES TO
EXPRORT ANIMAL LIFE, baring necessariated inventoring and the content of the content o DROCESS FOR PURIFYING AIR

Professor of Chemistry, and Analytical Chemist. To Messer. J. and A. Hiyth, Engineers, London.

1 do hereby certify that Dr. Payerse, a French gentleman, having repealedly gone down in the diving heat at the Polytechnic Institution, where he remained three house sense water without consequencembership with the almosphere—a thing which I should have believed to be bropostable if I had not seen to -1 offered to afterd him the measure of repealing the same experienced at figithead, in the citetag bell made by my distriction, to be seen degiciant the same experienced at figithead, in the citetag bell made by my distriction, to be seen degiciant the wreak of the Nayed disease, I busined that height diverse were much more effective, both in the citetagliant, in the citetag bell made by these supplement of the seen amployed there is not in the state of the seen amployed that he first produced against the wreak of the Nayed diverse, have heat had not always were much more effective, both in the citetagliant, in the reservation of the fragmental states of the seen amployed the seen as the second of the seen as the second of the

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c.—In anyway to your applications for my including of the Paysron's experiment, but to purpose to purpose the property to say, that without performing to any therefore of our decembers; if a set to see to be seen to be seen tentor occasional and, enable that considering, if consider a many as likely to produce occasional or the rent bagbook separations. I consider the produce occasion as the rent bagbook separations.

Performed Performed Link to the State of the Sea, the assesses in rosse britis, respecting on the give on a quiency of the Propose's faces, fine a service of the Propose's faces, fine a, fine a service of the Propose's faces, fine a, fine a service of the Propose of the Season of

Service of the second s

THE MINING JOURNAL,

FROM MARIES. ADAMS AND RARTIN, ENGINEERS TO THE EAST AND WEST INDIA.

BOUR COMPANY.

DRAM Sin,—I am happy to bear my testimony to the apparatus for partiying air, invested by you, having descended in the civing bell to a depth of twenty-one feat, and remaining under water thirty-fee minotes, without the least incorrections in respiration.

Jam, deer Sir, your's truly.

Empireer' Office, East and Worl India Docks, July 29, 1842.

My Dram Sir,—I have mostly because in testifying to the successed of the trials made in the diving bell, with your means of making the sir respirable, without communication with the saternal sir. At the time of my denoral first test incorrections after the same opinion. It is created that you have been quite successful in accomplishing the descrable objects in all subsequences operations of affording pure sir, and keeping it in this otate for a considerable squee of time.

Jam, dear Sir, your's institution, 47. Advant.

Jeth Hardiman, the gentleman who made several experiments with Dr. Payerne in the diving bell, over the wirest of the Hayal George, at Spithead, has been trying other superiments at Keyal Pubersu Colonial Mines, in St. Agues, with the newly-invented method of pricitying the sir. The experiment was made at a depth of about ine fact below the surface, and where the are superimented we visitated, that no person sendil approach the piece in rive of aims fathous above the level. A powerful air machine, attacted to the only ind. rook, was put to work some line ago, which hardly affined air for three men, who incastles, to east. The method of partitive the sir was brought into action ofter this air machine had been thrown out of sea, and although there were at that time no least that fines no least. The free men of sea, and although there were at that time no least that fines no least. The method of partitive east, the honey-week were highly insamed the sum of the rest, we holes were healted, and moster that is assumed that there condess, which were, the la

PETER FLOYD, Captain. NICHOLAS DUNSTAN, 4itto

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THE ILLUSTRATED POLYTECHNIC REVIEW-No. MILI This Number, broides the secul articles on Science, Literature, and the Fine Arts, contains a LECTURE on MONOMANIA, by Dr. Rigmond. This Journal is published weekly, price 4d., stamped for post, 5d., and in mostly parts. It is the hear voltice for all information connected with the most inforesting typics of the day—Raviews of New Works—Correspondence from different Cities of the Continent—Lives of eminent Painters and Scripture—Lectures on popular Physiology—On Bolany—the Fine Arts—Description of New Inventions and Discoveries.

J. Limbird, publisher, 14s, Strand.

FOR BLANTING ROCKE IN MINER, QUARRIER, AND FOR BURMARINE OFERATIONS.—This article affinets the safest, cheapent, and most expeditions mode of effecting this vary headvilous operation. From many institutements to its userfulness, with which the Manufacturers have been favoured from every part of the kingdoms, they select the interwing letter, percently received from John Taylor, Eng. F. R., &c., &c., ...

"I am vary glad to hear that my recommendations have been of any service to you. They have been given from a thorough conviction of the great usefulness of the daylot Fase; and I am quite willing that you about demploy my name as evidence of this."

Relabioled, Junuary, 1819.

No. 16, CHATHAM-PLACE, BLACKPHIARS, LONDON.

Referited, Jenney, 1919.

PRESCURVE—Sig JAMES RIVETY CARNAC, Bart., Rock Cliff, Lymington, Vice. Presidence—Geologic Forrible, Eq., 9, Floroy-square, on severas.

Thomas Hearth Carner, Eq., 60, Develocable, Grovewere square, John Rivett Carner, Eq., 61, Develocable, Grovewere square, John Liveathet Harris, Keq., 11, Manual atreet, Grovewere square, John Greekhot Harris, Keq., 12, Childran place, Young Harris, Sept., 12, Childran place, William Pacton Farris, Eq., 70, Childran place, Monard offwet, Mey Philip is Septon, 16, Charlotte street, Booking ham-gair, William Sargent, Eq., 17, Sance-afreet, Booking ham-gair, John Stowark, Reg., 27, Patentery Chambers, Whitham, Philips Stowark, Reg., 27, Patentery Chambers, William Johns Stowark, Reg., 27, Patentery Stowark, Amening to the Thorse, Keq., 16, Patentery Packs, Chambers, William Stowark, Stowark, Chicago Johns Stowark, Shop, 27, Patenter, Johnson Stowark, Shop, 27, Patenter, Stowark, Chicago Johnson, Stowark, Stowark, Chilard Stowark, Chicago Johnson, Stowark, Stowark, Chicago Johnson, Stowark, Stowark, Chicago Johnson, Stowark, Stowark, Chilard Stowark, Chicago Johnson, Stowark, Stowark, Chicago Johnson, Stowark, Stowark, Chicago Johnson, Stowark, Stowark, Chilard Stowark, Chicago Johnson, Stowark, Stowark, Children, Stowark, Chilard St

DISEASED AND HEALTHY LIVES ASSURED.
MEDICAL, DIVALID, AND GENERAL LIPE OFFICE,
16, PALL-MALL, LONDON -- Chapter at 100,000.

Sir Monor Station, Bart., M.B., & C.M., P.E.A., Provident of the Soyal Col-lege of Fig. accions. Ac. Sir William Surveys, M.B., E.C. H. F.E.S., Inspector General of the Navy, Ac. Sir Matthew J. Thermy, Bart., N.B., E.C.H., &c. Taxartees.

DOLYTECHNIC INSTITUTION .- EASTER HOLYDAYS The complete arrangement of COTTON SPINNING MACHINERY, consisting of a CARDING, ROVING, and SPINNING FRAME.—Cary's NEW MICRO-SCOPE, magnifying SEVENTY-FOUZ MILLION THEME.—A NEW SERIES of DISSOLVING VIEWS.—The SCIENCE of ELECTRICITY DEMONSTRATED by the COLOSSAL ELECTRICAL MACHINE, at a Quarter to Three delity, and at Eight in the evenings.—MODULE of STEAM—ENGINES and various kinds of MACHINERY IS MOTION.—Lectures daily on CHEMISTEY and NATURAL PHILOSOPHY, including the STEAM—ENGINE, by Dr. Kyan and Professor Bachhoffner.—The CLASS LECTURES are continued as usual.

Admission, One Skilling.—Schools, half price.

WEST WHEAL JEWEL MINING ASSOCIATION.—
Notice is hereby given, that the ANNUAL GENERAL MEETING of the
shareholders of this company will be holden at the office, as under, on Monday, the
short Manual Meeting of the count,
20, Thrusdoscolie.street, April 10.

By order of the board,
20, Thrusdoscolie.street, April 10.

R. NICHOLSON, Secretary.

REAL DEL MONTE MINING COMPANY.—Notice is hereby given, that a SPECIAL GENERAL MEETING of the proprietors of this company will be held at the office, 2, Duke-street, Adelphi, on Thursday, the 27th day of April loset, at One of clock precisely, for the purpose of confirming, or otherwise, certain resolutions for arranging the losses of 1827 and 1828, passed at a general court, held on the 10th inst.

By order of the court of directors, 2, Duke-street, Adelphi, April 12.

JOHN PHILLIPS, Secretary.

STEAM-ENGINE, &c., WANTED.—WANTED, to PURCHASE, a GOOD is-inch CYLINDER STEAM-ENGINE, on improved principle, with or without boilers. Also, a GOOD CRUSHING MACHINE.—Full particulars, addressed to Mr. H. F. Stephens, Queen's Arms Tavern, Cheapside, London, will receive immediate attention.

TRAVELLERS BY RAILROAD, or otherwise, TO LONDON, will FIND SUPERIOR ACCOMMODATION, on MODERATE TERMS, at EVANS'S GRAND HOTEL, kING-STREET and FIAZZA, COVENT-GARDEN,—Bed and Breakfast, One Guinea per was k.—Charges for Un-nerve, Wines, acc., equally reasonable.—Admittance into the Hotes at any hour.—The SUPPER ROOMS are OPEN EVERY EVENING, at half-goat Nine o'clock, in which a great musical treat is provided for the public, gratis.

#### NOTICES TO CORRESPONDENTS.

The MINING JOUNEAL is regularly published about Two o'clock on Saturday of moon, of the office, No. 26, FLEET-STREET, where it can always to obtain and there is no cause for irregularity in its supply, in town, other than neglect to part of the agent through whom it is ordered; but, as respects its frames atom to country subscribers, the bisme is shared with the Poel-office on thorities.

More extensive premises than those lately occupied being found necessary, the establishment of the Mining Journal is REMOVED TO 24, FLEET-STREET (opposite 8t. Dunatan's Church).

"R.P." (Redruth).—The article on the Devon and Cornwall Railway is wholly in-admissible in our columns. By its insertion, we should not only subject ourselves to an action for libel, but to the animadversion of all honest men, for giving publicity to statements, as devoid of truth as they are of probability.

"N.P." (Dublis).—Probably in our part.

N. P." (Dublin) .- Probably in our next.

"M. P. " [Dublin].—Probably in our next.

Mr. W. H. Phillips, on the Natural Laws of Flight, will be continued in our next.

"The Cual-Fleids of Great Britain " will also be recomed next week.

"T. V."—We have not beind from Mr. John Budge for some time, but believe that he is engaged in the production of the promised series of papers if he, our convexyondent will have no cause to regret the absence of his communications from our columns lately.

R. Armstrong (Manelester), on the Patent Smoke Discussion, reached us too late for attention in our present Number.

"F. L. B."—The letter should be addressed to the directors, who will feel chiliped.

F. L. B."—The letter should be addressed to the directors, who will feel obliged by such neglect being pointed out to them.

R. P. L." (Portreath) will receive a communication by post, in reference to the withdrawal of his advertisement

Mr. C. Wye Williams's communication to the Liverpool Polytechnic Society, on the Combustion of Gas, in reply to a paper lately read by Mr. C. J. Smith, on the Combustion of Smoke, reached us too late for our present Number—it shall, how-ever, appear in our next.

#### THE MINING JOURNAL, Biailway and Commercial Gajette.

LONDON, APRIL 15, 1843.

Parties desirous of ordering the Wissag Journal, can do so, either direct to the office, or through any newsvender or bookseller in town or country. Notices of irregularity in its delivery are requested to be forwarded to the office where every enduavour will be made to rectify the cause of complaint.

In our last week's Number, we directed the attention of our readers to the Almaden Mines, yielding, as they do, a large revenue to the Spanish government, and which, from the terms of the contract then adverted to, and which are further noticed in our co-

to the Spanish government, and which, from the terms of the contract then adverted to, and which are further noticed in our columns of to-day, must be of a far more beneficial nature than those antecedent. We have since received communications from parties who are conversant with mining operations in Spain, and of the mineral deposits with which that country is said to abound, but which, being principally extracts from journals kept, render an abstract necessary—the first portion of which we hope to present to our readers in our next.

We cannot, however, conceal from ourselves that much is to be apprehended from the statements submitted to us, inasmuch that, with the altered position in which we stand, from the tariff admitting foreign ores, we are induced to believe that our home mines may be further affected by the working of the mines in Spain. In saying thus much, we are not disposed to limit the application of capital to mines at home; but, as the evidences afforded us, from time to time, tend to prove the rivalry with which we must contend, it is only right that we should lay before our readers those grounds which, we think (in the absence of legislative enactment), require the immediate attention of the capitalist and the miner.

Spain, it would appear, is, like our own country, not confined in its mineral resources to one metal alone, inasmuch that, although its quicksilver mines may be of the first consideration, other mineral produce is—if not equally abundant—yet holding out encouragement to the capitalist. Without, on the present occasion, reverting to the quicksilver mines, or availing ourselves of the information furnished in the "notes," from which we shall have occasion to make extracts, we may observe that silver, lead, and copper are found; and, if not worked to an equally profitable result with those of quicksilver, hold out those prospective advantages which require only the application of capital, and the employment of parties conversant with mining operations—which latter appear to be far us moment to our adventurers at home.

We are induced thus to express an opinion, from a transient glance at the statements submitted to us, and also the opportunity afforded of observing the nature of the eres raised in that country. afforded of observing the nature of the eres raised in that country, some of which are fully equal to those produced from the mines of Cuba and Chili, and, at the same time, giving the several varieties of the exides, carbonates, sulphurets, and native copper. We may observe that there is no limit to the mining districts of Spain, if we are to judge from the information before us, or the sperimens produced—sunbracing an extent of 500 miles, north and south—on which we shall have occasion to remark; simply confining ourselves, on the present occasion, to a notice of the subject.

captain); and this may be said to apply to other mines in this particular district. We trust that, with profitable returns, confidence will again be fully restored; for there is ample field for enterprise in our own country, where an ordinary degree of caution is observed; and we are glad to find that the spirit of enterprise is already awakened, as evidenced by the increased orders for machinery, and the extension of the workings in depths. The mining interest, which has had so many difficulties to contend with, has, we hope, seen the worst; and that, with a slight advance in the standard, and continued discoveries, we may yet expect to see the price of labour retinued discoveries, we may yet expect to see the price of labour re-stored, so as to give, not only to the adventurer a return for the capital employed, but to the working miner a fair remuneration.

In our Journal of 25th February last, we gave a condensed abstract of the specification of the patent of Dr. Payerne, which is about being brought into use by W. R. Vigers, Esq., the specification of which occupies ten skins of parchment, occasioned by those technicalities which the patent laws render necessary. It is, however, sufficient to state that the object of the invention is to those technicalities which the patent laws render necessary. It is, however, sufficient to state that the object of the invention is to keep the air in confined places, in a pure and respirable state, without a constant supply of fresh air from the atmosphere. There can be no doubt of the applicability of this principle to hospitals, prisons, convict-ships, theatres, and crowded places, and, we might add, even to the sick chamber, where the health of the patient does not admit of the introduction of a current of air; but our present purpose, and that, indeed, to which we direct our express attention, is to examine how far it may be applied to mining purposes, with economy and advantage, in doing which a few words as to the principle of the patent, may not be amiss. The first thing claimed and specified, is the depriving the atmosphere, in confined places, of the carbonic acid gas which it contains, produced from respiration, or combustion, by means of quickline and caustic alkali, or of the lime alone dissolved in eight times its weight in water; this vitiated air is passed through this caustic solution by means of a machine, which a boy can easily turn, and its carbonic acid is thereby absorbed, and held by the lime. The requisite quantity of oxygen to supply that consumed, is conveyed by means of a tube from a small gasometer, in which it has been previously generated from chloride of potash, or driven off from the peroxide of manganess by heat. The vessel containing the oxygen may be conveyed near to the machine for absorbing the carbonic acid gas, or may be left at any distance from it, a small tube being the means of communication.

It is calculated that one cubic foot of atmospheric air must be

or may be left at any distance from it, a small tube being the means of communication.

It is calculated that one cubic foot of atmospheric air must be purified for each person per minute, and there is also a defined quantity required to supply that consumed by the combustion of the air from the lighted candles, of course, equal to the number of candles employed. The specification contains a further applicability of the invention to the purposes required, by a diving-bell, which was fully tested by Dr. Payenne and his assistant, by a recent exhibition at the Royal Polytechnic Institution, in Regent-street. Our readers are fully aware that in driving an adit, or level, it becomes necessary to sink frequent shafts to admit air, and in driving an end to any distance, with the object of cutting a lode, how frequently they are obliged to desist from their operations until a winze is sunk, or by some other mode, air can be admitted to the miner. The machine which is the subject of the patent announced in our advertising columns may be rendered at a cost in manufacture not exceeding 50L, varying, of course, as to its size. It is assumed that it will not be required of more than three feet diameter, thereby affording an easy admission through any shaft or level, and may thus be advantageously used in driving levels, and in winzes, or rises, by which many thousand pounds may be saved in ascertaining the existence, or non-existence, of lodes, and other important objects, at a slight expense, instead of the heavy outlay to which adventurers are now subjected. The ingredients required for absorbing the carbonic acid gas, and producing oxygen, are of the most common and abundant description, and the labour required, is, in itself, perfectly insignificant, not amounting to beyond a few shillings per day.

We have made inquiries as to the charge made for the use of

We have made inquiries as to the charge made for the use of the patent, but understand such is, in some measure, undetermined. Indeed, the various modes and purposes of application render it a matter dependent on circumstances. We hope, on an early occasion, to be in possession of more minute data, which we shall gladly labeled and purposes. lay before our readers.

The fearful accident recorded in our columns of to-day, where by no less than twenty-seven lives were lost, requires more than ordinary notice—the evidence afforded at the coroner's inquest being of a nature which would lead us to suppose that some measure will emanate from Government, whereby protection may be secured to the collier—a course which appears to us to be indis-pensably necessary, where life is sacrificed to cupidity, and a false economy; as well as a disregard displayed of all feelings of humanity. It will be gathered, from the brief report which we have given of It will be gathered, from the brief report which we have given of the explosion, that the dangerous state of the workings was not only known to the viewers and agents, but that one of the coiliers had actually "left an hour before the accident, because he saw his life was in danger," and for which prudent resolve the under viewer (one of the sufferers) threatened to "spale" him, or stop 2s. 6d. from his earnings. From the evidence of all the pitmen, it apfrom his earnings. From the evidence of all the pitmen, it appeared "that the pit was very foul in many places, and the ventilation not properly attended to," while, from that of others, it further appeared, that the lamps, as well as the traps, were out of repair, and almost useless. With such evidence before the jury, it is surprising how they should have returned a verdict of "Accidental Death," when it is clear that the loss of life arose from the culpable neglect of the viewers or agents of the colliery, on the score of expense. Thus have twenty-neven lives been lost, and the families deprived, not only of husbands and parents, but in many (possibly in the generality of) instances, of the only means of support. Such culpability, we should hope, will not be allowed to pass unnoticed; and that while Lord Assilies evinces so much interest for children employed in mines and collieries, he will display the like feeling under the present deplorable circumstances, by calling for an inquiry more rigid than that reported in our columns of to-day, where children—who, by his act, would be precluded from earning a subsistence by labour—are deprived of their means of support, by the cunce by labour—are deprived of their means of suport, by the cupidity or unpardonable neglect of proprietors and their agents. Had an accident of a like nature occurred on a railway, and the evidence adduced was to the effect that it arose from the regisect of the superintendent or engineer of the line—that the carriages were insecure, and that, after attention being directed to them, they had been neglected, we venture to say, not only would a heavy decidand be levied, and very properly so, but that a verdict of manulampher would have been delivered against those who were thus proved to be neglectful of their duty, as well as wanting in the rememors feelings of homeasity.

thus proved to be neglectful of their duty, as well as wanting in the common feelings of humanity.

As we purpose bringing the subject under the consideration of the House of Commons, by petition, for an inquiry to be instituted, with the view of none legislative measure being enacted, so far as in practicable, to preclude a similar accident occurring, we shall feel indebted to our correspondents for any additional information, so that the same may be embodied in the petition, and had before the House. On such occusion, we trust that every representative of colliery districts, as well as coal proprietors who have sents in the House, will take an active part in the discussion which must necessarily attend the presentation of the petition, or a motion consequent on it, for the appointment of a select committee. Mr. Pasen will,

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doubtless, take up the question, while the unanimous concurrence of the House may be confidently expected, when subjects of so much infinite less importance engage the time and attention of the legislative body. We hope to be in a position next week to announce that the question has been taken up by parties of influence in the House, if not by Government itself.

It is gratifying to find that, by the late contract entered into by the Spanish government for working the quicksilver mines of Almaden, however the advance in price may militate against the mining interest, yet that the holders of Spanish Bonds (3 per cents.) will, in a great measure, be secured the payment of interest accruing thereon, a decree having been executed by the Duc de la Virroula, by which the entire produce of the mines of Almaden and Almadenejos, after deducting the expenses of working from the commencement of the contract (23rd ult.)—besides 20,000,000 reals on the banks of Cuba, and 4,000,000 on the Cruzada branch—is to be exclusively applied to the payment of the dividends on that stock, the heads of the Sinking Fund Department being held responsible for the application of the funds in question to this, and no other, object. It is to be hoped this earnest of the good intentions of the Spanish government will be followed by other acts whereby they may regain the confidence of the capitalist; and, in some measure, repair the injury they have inflicted, from want of honesty and good faith.

We find, from the parliamentary proceedings, that a petition was presented, on Tuesday last, against the passing of the amended Southampton Docks bill, which was referred to the committee.

We are not surprised that this course should have been pursued when we consider the object of the proposed amended act, which is to convert the shares in the original capital authorised to be raised by the Act, for making a dock or docks at Southampton, into stock; to raise a further sum of money, which is set down at 350,000d., being equal to the original capital of the company; and, if necessary, to take up an additional sum of 150,000d., on such terms as the directors may think fit.

It is unnecessary to recapitulate the main features of the under-taking, or the objections which have been already mooted in our columns. It is therefore sufficient to observe that nearly 300,000.6. has been expended already on the outer dock, and that the proposed Act contemplates a further outlay of 500,000.6 in the completion of the tidal dock, erection of buildings, &c. We again recommend the proprietors to be watchful of their own interests, and not to place confidence in those who have already deceived and betrayed them.

Confidence in those who have already deceived and betrayed them.

PRESENT APPRABANCES AND PROSPECTS OF THE SHARE MARKET.—
We have just been favoured with the usual periodical circular of Messra. R. B. Watson and Co., of Leeds, taking a review of the past few months, and directing attention to the probable future results of the present extraordinary position of capitalists. The first thing societed is the excessive abundance of money—in fact, the waken'day superfluity of it in the mercantic world, while interest can only be obtained from bankers to the extent of 2 per cent, the moore holders will run to stocks, railreads, &c., but foreign and domestic. This superabundance of money must flad resort to some employment, either legitimate or otherwise, and, even should trade improve, nothing like the amount of capital will be required as was a few years since; less business is done in the large way, owing to the improved mode of transit, in consequence of which smaller stocks are kept, and anniler purchases made, though made oftener. In consequence of the great reduction of the working expenses on almost all lines of railways, the companies will be enabled to pay off their mortgages sooner than estimated, and this will throw back large amounts of money into inactivity, and greatly reduce the value of capitals, and will, an doubt, enable many companies largely in debt to reduce the rate of interest to a great extent. In almost all the railway reports for the past half-year, the deplorable state of the commerce of the country was clearly shown, in other an increase in second and third-class, and a diminished number of first class; and, in all, an immense falling off in the total receipts, as compared with former years.

Fannet Railways.—The railroad treaties just contracted (the one for exhibiting are a railroad between Paris and the northern frontier, with a branch to Calais; the other for constructing a railroad between Avignon and Marseilles) will, in all probability, be successful.—Thus continues the correspondent PRESENT APPEARANCES AND PROSPECTS OF THE SHARE MARKET

#### ORIGINAL CORRESPONDENCE

SUCCESSFUL APPLICATION OF ANTHRACITE.

SUCCESSFUL APPLICATION OF ANTHRACITE.

TO THE BUTTON OF THE MINING JOURNAL.

STR,—If you can afford the space, I would prefer this mode of communicating to Mr. Kymer my sentiments upon a subject which must deeply interest him, as well as all parties connected with this district—vis., the successful application of anthracite as fuel for steam purposes generally, rather than discuss the question of price in a private correspondence. I feel assured we are both siming at the same result, sithough our opinions differ as to the best means of staining it, as in most other matters of opinion, for huminess, for sententies. I neither wish to disguise the truth, nor mislead the public, but rather to set Mr. Kymer and the public right, he having, in my opinion, taken up an erroneous position, and in that attempting to convey to the public, or rather that portion of the public whose of his patent, and to the extensive use of anthracite as fuel for straus—agines. There cannot be a doubt but that Mr. Kymer has effected an extraordinary economy of fact, but he seems to consider he has a right to put all such saving into his own pocket—that all he can save in quantity he ought to add to the price of his coal, stoutly maintaining that he cannot sell his coal to a profit at less than such price, and, at the same time, that he can work his coal at less cost than any other concern up this line. What is the consequence —The great consumers say there is no inducement to go to the expense and inconvenience of making an alteration without any pecuniary advantage, and with the prospect of not heing able to procure an adequate supply of the coal, since there must be either a very limited quantity of it, or that it must be very difficult to work. Upon these points I wish to set the public right. There is an abundant supply of the coal, and no reason why it should not be shipped at as low a price as coal in the north of England, such as one of the Hartley's. Mr. Kymer must begin upon this principle. He will then be enabled to adopt it. I h

patentee and the public.]

MESSRS. KYMER AND LEIGHTON'S PATENT PURNACE, TO THE EDITOR OF THE MINIMO JOURNAL.

Sin,—I have lately seen in your useful Journal, of which I am a constant reader, several notices of a patent furnace for burning anthracite, brought forward by Mr. Kymer, with whose name I see associated that of Mr. Leighton. Through the medium of the Journal, I wish to sak the latter gentleman, if this plan is the same as that offered some three years since to the committee of the South Wales Anthracite Association, which I suspect to be the case, from a letter which appeared in last week's Number, and from the circumstances detailed in a small pamphlet cent to me about a year and a half ago. It would be but fair to the association if the committee rendered some account of their stewardship.

Liverpool, April 12.

A Sussenium to the Pund.

Liverpool, April 12.

A SUBSCRIUME TO THE PUND.

THE SMOKE QUESTION—MR. WILLIAMS AND MR. HALL.

TO THE EDITOR OF THE MINING JOURNAL.

SIR,—Having read an article in the Mining Journal of this day, signed "A Manufacturer," I have no heatistion in pronouncing the statements to be without the least foundation, and, in stating my conviction that it came from the same writer as the article which preceded it—Mr. Charles Wye Williams. I am aware that the feelings entertained by Mr. Charles Wye Williams. I am aware that the feelings entertained by Mr. Hall towards that gentleman will prevent his taking notice of anything that he may say or write; I, however, as his agent in carrying out all his transactions, centure to assure you, that the following paragraph is totally incorrect:—" My hot air furnaces have not done well, though he made several alterations, and we fell out," For, in the first place, neither Mr. Hall himself, nor I, on his behalf, have ever falles out with a single person with whom he has had any dealings for his amoke-consuming apparatus; and, in the second place, not a single instance has occurred in which his furnaces, whether with hot or cold sir, "have not done well." I challenge "A Manufacturer" to give his real name, and, whether it he Mr. Charles Wye Williams, or any other person, I pledge myself to prove him guilty of gross falsefood. In reply to the question of that person, I will only add, that Mr. Hall has suthorised me to apply all his subsequent improvements, whether with hot air or cold air, without farther charge for patent right, to the furnaces of all parties who have applied the apparatus agreeably to his first parent of 1836, which offer has been accepted by many of them to their great satisfaction.

ABATEMENT OF THE SMOKE NUISANCE. sdan, April 8.

ABATEMENT OF THE SMOKE NUISANCE.

ADATEMENT OF THE SMOKE NUISANCE.

TO THE EDITOR OF THE SMOKE NUISANCE.

TO THE EDITOR OF THE MINISTO JOURNAL.

Sira,—I perceive, with pleasure, the insertion in your excellent Journal of last week of an extract from the minutes of the Nuisance Committee of this town, respecting a report from a part of their body of an inspection which they made of Mr. Samuel Hall's smoke-consuming apparatus, as applied to a thirty-horse boiler, at the Manchester and Birmingham Railway Station, in this town. Peeling a great interest in the important subject of smoke-consuming, I attended the above mentioned inspection, and can truly say that I was as work satisfied and gratified therewith as any of the decembers of the unisance committee.

\*\*Manchester\*\*, April 13.\*\*

THE SMOKE NUISANCE—MR. WILLIAMS AND MR. HALL. TO THE SHOKE NUISANCE—MR. WILLIAMS AND MR. HALL. TO THE SHOTON OF THE MINISTO JOURNAL.

\*\*E. cog\_On top servival here the other day, my attention was called to a lettle-on'Mr. Charles Wys Williams, in the last week's Mining Journal, triba-phing over Mr. Samuel Hail, on the subject of the priority of their respective patents for the consumption of smoke. As I feel smuch interest in abating the nuisance of smoke—and, consequently, in the respective merits of the inventions of those two gentlemen—I have taken the trouble of going to the Inveniment Office, in Chemery-lene, to examine the specifications of Mr. Hail's several patents, and shall here conduce my observentions to those of 1836 and 1838, as they are prior to Mr. Williams's patent of 1839. I was really so corporated at finding Mr. Williams's patent of the priority of the priority of the patents of the interest continued to the second patents. And it did it difficult to refraince from using this last year, the next profit elements made in present when the sea, while the expenditure of insteams of more than at per cent, upon the groun receipts, an instance of carcars equalled by very leveral retrievable very fixed on a thirty-horse boiler, at the Manchester and Birmingham Railey (Marcar) and the propose of electing a percent and deputy governor for the examing year, Richard Care, Esq., and Thomas Cruchusite, Eq., when the examing year, Richard Care, Esq., and Thomas Cruchusite, Eq., when the examing year in-G. F. Bronke, J. Barlow, J. Chambers, W. C. Colvill, G. Care, I. M. D'Ollor, N. Hone, R. H. Hantino, J. Jansson, T. L. Kelly, W. F. Losell, R. Law, H. Bon, and T. Wilson, Esq., Dennis Communication of the examing year in the state of the common of the examination of home of the existing year in the state of the common of the com

THE ARRIAL MACHINE AN ABSURDITY.

TO THE EDITION OF THE MINITED JOURNAL.

Bis.—The description of the "serial machine," in your lest Journal, which, I am actisfied, was never written by yourself, is the description of one of the most preporterous attempts to obtain the power of actical transit, by machinery, that has yet been made. The machine does not possesse a single element of success; and the means of flight proposed, proves the prejector ignorant of the common principles of dynamics. Impulsion to the machine, for the purpose of projecting it into the sir, will be given, it any pears, by means of a fixed steam-engine and an inclined plane. Of the amount of projectific force required, or to be given, we are not informed; but whatever it may be, it involves, in degree, the same result, or comjuntarily required. Now, admitting that propulsion down an inclined plane will project the esachine into the sir, what is to continue its flight beyond a determinate range? Projectiles meet a retarding force—uniformly increasing—that, moment of latter, puts an end to their flight, and returns them to the earth. To continue the flight of a projectile, a regularly increasing force of projection would be necessary; and it is nothing more than a projectile it has no element of buoyancy, and it must submit to the laws of projectile motion, just an extrictly on a conton ball—save that its descent would be retarded by its great extension of superfices. The ranes, or fam, on the principle of the Archimedean propeliers, fixed at the binder edge of the machine, may exert a force equal to the force that its descent would be successity, he welform; and, being so, it will not continue the flight of the machine falling in the main assential to success—the power to overcome the effect of gravity—it would be usaless to offer any further remarks on it. But is not the thing a supendown houx?

Liverpool, April 7.

THE PHILOSOPHY OF FLIGHT.

string. The machine failing in the man executes to offer any further remarks on it. But is not the thing a stapendows hoax?

Literpool, April 1.

THE PHILOSOPHY OF PLIGHT.

YO THE SHIP OF PLIGHT.

YO THE SHIP OF PLIGHT.

YO THE MINES OF OUNDAL.

Say, "" Man," says the learned Lord Bason, " is the servant of Nature." Such is trily the case, while he is standing at the portate of Knowledge, but varied with power derived from observation and the expansive workings of the mind, he assumes a prouder poolition, and becomes the "Lord of Nature" ""berndering her tributary to his wester and purposes. In this age of discovery noticing seems impossible to accomplish—ideas generated in the durker ages, and laughed to seem by secondaring generation in the durker ages, and laughed to seem by secondaring generation in the durker ages, and laughed to seem by secondaring generation in the durker ages, and laughed to seem by secondaring the string of the string of the secondary of the string of the secondary of

ON MINERAL DEPOSITS.

CON MINERAL DEFONETS.

TO THE ENTER DEFONE SOUTHWARE.

TO THE ENTER DEFONE OF THE MENTER SOUTHWARE.

TO THE discussion on mineral deposits, to your tellucion forestal, here
a recrything but profitable to the practical trimer, sming there is, in
may, problems which have not been moved, and upon which gashewith his expansive mind, night remineste for ages, and the Uliga to
conclusion—here are longiths, and breaths, and theythe, which we
not fathers. Not so, exactly, with the practical part of existing, is frofilly mast with difficulties, and push as most be excursioned, and which
also test with difficulties, and push as most be excursioned, and which
also test his skill and apportune; and, though similar accounting world. And its varyon

And its varyon

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It is not not the sale and a positions; and, though similar accounting would be a strong the sale and a positions; and, though similar accounting would be a strong the sale and a positions; and, though similar accounting would be a strong the sale accounting to the sale accounting the sale accounting to the sale accounting to the sale accounting the sale accounting to the sale acc

ON THE ORIGIN OF BASALT.

TO THE EMPTOR OF THE MINING JUERNAL.

Stra,—Beach is most extensively distributed over the upper crust of the earth, the term being loosely and inaptly applied to a vast variety of composition, varying from such other, in mixed qualities, composition, external and internal character. Columnar bassit is almost invariably composed of terrestrial vegetable earth, consumingted with varying quantities of animal matter, silice and them to the bodies combined with this basis are, in general, lime, socks, caide of iron, and water—the alkaline earth being present in their neutral state.

This variety of basalt is declared by geologists to be of volcanic origin; but, in securing this explanation, it is necessary that the inquirer into mature hear in mind that volcanic action is the proximate cause of change, and not of production; and that, admitting the material of basalt being abstracted from the superficial beds of the earth, we find that it undergoes little thange other than in the disposition of its elementary qualities and atomic arrangement of parts, the change similaring to that of earth into clay, or of clay into clay slate; the material ejected from the inner beds being, de facto, the same, under the several circumstances of change; the volcano cause forth and in a state of ebulition, and so far causes chemical and mechanical changes; and the sudden cooling down of the boiling mass sometimes occasions its conversion into colument basalt, but and necessarily no, for, generally speaking, it retains its form and qualities as earth, unimpaired by the action of fire; or, indurating from the liquid state, it is converted into common basalt. The more numerous varieties of this species of rock are earths simply concolidated by the agency of atmospheric heat, the nature of the material and the degree of heat determining the nature of the rock; thus, in the warmer climates of the earth, hasolts are much harder and more diversified than in temperate regions, bituminous matter being more or less a

distal being the result of intense tropical heat.

GROLOGY—NEW SYSTEM OF PHILOSOPHY.

GROLOGY—NEW SYSTEM OF PHILOSOPHY.

Are the subtrout of the Mills of JOHNAL.

No. Montaque cays, and says truly, "the records of the past are in the hills, the valleys, the mountains, and the plains—all are the relies of past generalisms, all speak the one universal language; "but who can read this language ! who will interpret the writing upon the walls of our dwelling-place!"—"The shid of Nature, "Mr. Graham Montague. Hear him, then, ye infants! for he says that, "with the wisdom of 5000 years accumulated and placed at your disponal," ye" still remain profoundly ignorant of Nature's operations." But now "The Book of Nature is operated," we read thus:—"The carth" in reproduction of form from from previously raisting, ""in and throughout the whole of which is no plan marked out, so design manifest, nor is there ought to lead us to infer that it was produced merely for the purposes of the creatures that inhabit it," and "the appearance of man upon the earth has caused so material afteration in the progressive advance of production; the relation of man to this planetary body is the same as that of animals—she soulowed with like feelings, and is the subject of like viciositudes; like them he first, and "the appearance of the rous of life; like them he first, and Mr. Montague says, "that the senses are but the imperfest medium of communication, and being the instruments of power, but without power of theoretieves, they are apid to be deceived;" and, notwith is another to the child of Nature "who ways it, fullow me; let us dip one wooden howing the child of Nature" who ways it, fullow me; let us dip one wooden howing the child of Nature "who ways it, fullow me; let us dip one wooden howing the child of Nature "who ways it, in the manifest in which the sense produced from homeshers, they are apid to be deceived;" and of the child of Nature is not appearance of one, must confide a produced by the sense of the Smith who which is common

Calcium proper And its oxygen And its unyque

munitages) developes formic acid, the apple developes malic acid; onch a peculiar to their respective organic bodies, they are not derived from it soil on which they repose; in life memor calcium is secretaed by occanic as terrestrial organic bodies, being a result of chemical admixtures, organic action determining the result." Now, let us ask the chemistronic Gehlen, us more lately Berselius, have shown that formic acid is a distinct compound and Döberriner has published some curious facts respecting its artificial per duction, he has shown that it is the result of the peroxidation of several vegetable compounds," See, so that the ant may get it from vegetables, and doubt not, does secrete it proper—that is, separate it from vegetables, and doubt not, does secrete it proper—that is, separate it from vegetables. The philosopher is equally unfortunate in dealing with the apple tree, for although each system and and advectable life is of facely interwoven, as to (appear to) be inseparable," still his connecting the ant and the apple tree is a very violent proceeding, and not quite scion is right; and, then, after all, the maile acid is not peculiar to that organic body—the apple tree—for the name acid exists in the berries of the mountain ash and in the house sick; nor is the formic acid peculiar to that organic body—the ant—for it exists in, and can be separated from, tartaric and and poential of manganese. Here I leave the new system for the present week.

April 4.

THE "CHOKE DANIE!" Montague) developes form peculiar to their respective

THE "CHOKE DAMP" OF MINES.

THE "CHOKE DAMP" OF MINES.

TO THE EDITOR OF THE MINING JOURNAL.

SIR,—The "choke-damp," "black-damp," and "after-damp" of the mices, is the carbonic acid gas of modera chemistry. It is sometimes developed naturally in mines, and is the invariable product of an explosion of "fire-damp." In the former case, were it allowed to flow along a channel provided for IR (which it would do, in virtue of its superior specific gravity), into a tank, it might be easily pumped out, like water, by the engine. It is, in the latter event, however, that I am anxious to impress the mining interest with the means that may, most certainly, be successfully suppleyed in restoring the victims of suphysis, and is approaching the "wastes," subsequent to an explosion. Cold water should be constantly forced, by a small "forcing-pump," through a "reac," by the individuals in their approach. This will, at once, condense the notions gas and restore the victims. It is not generally known, that a comparatively small quantity of carbonic scale gas note on the brain like a narcotic poison; and its instantaneous neutralisation, by a small stream of cold water, let fall on the occipant, is most remarkable.

MANUPACTURE OF BAR-IRON—LARGE CASTINGS.

This will, at once, condense has nonzone get and reversily known, that a comparatively small quantity of carbonic acid gas notes on the brain like a narreotic poison; and its instantaneous neutralisation, by a small airsum of cold water, let fail on the occiput, is east remarkable.

MANUPACTURE OF BAR-IRON—LARGE CASTINGS.

SIR.—"An Old Roller" once more intrudes on your kindsess in begging you to insert this letter in your valuable paper, by doing which, you will allow him the opportunity of preving that the statement he gave in his former letter, of the bear voiled at Dowless and Cyfartifa, was cerrect, and that he was not led away from the truth by partiality, as the "Penydaran Operative" would wish you to believe. My only reason for troubling you with my first letter was in consequence of having seen in your paper the account of the Dowlais bar, which was no given that every one who read it single have taken for granted, that it had been fairly rolled from a pile, as bars usually zer, and not previously worked into a bloom under the hammer, which every one knows (who has the slightest knowledge of the process of manufacturing her-iron) makes all the difference in the difference of the process of manufacturing her-iron) and not call the difference in the different particular such bars.

I will now give you the true account of hoth bars, which I have obtained through the kindness of some of those persons engaged in the working of them. First—The Dowlais pile, which her "Penydaran Operative" makes to weigh 31 so list., is not correct, for it was not weighed at all—consequently, his statement must have been guesa-work. Secondly—This pile was heated and specied under the hammer five different heats, until it was hammered into a solid bloom of about nine and a half inches diameter; it was then reheated, and put into the rolls, which reduced it to eight inches have diameter, and it feet I tinch lung. Thirdly—As to its straightests, any one could have satisfied himself on that point, as it has provided use to by bot

ELECTRO-PLATING AND GILDING.

ELECTRO-PLATING AND GILDING.

At the Society of Arts, on Monday, Mr. Prilatt described and illustrated the new art of circler-plating and gilding, according to Messrs. Elkington's process. Soveral specimens were placed upon the table, and during the lecture two old candistation were placed upon the table, and during the lecture two old candistation were plated, and a silver wratch-cane was gill in a few minutes. It is immaterial what metal is used for articles to be plated by this process; a compound metal, componend principally of nick d, however, is perferred, which, when plated with aliver, one scarcely be distinguished from the solid metal. Upon the was model in first deposited a copper surface, by the electro process; the war is then mented out, and thou a perfect sensition of copper is abdained. If the neighbor of any substance that may be required in obtained, into which is deposited silver of any substance that may be required. The support is then removed, by domining it with acid, and the article coupled in the scale, on shade metallic mould, made of gits and treache, is used, by pouring the composition in a fi-quid state upon the scale. By a late improvement, the proprietors have the means of giving a metallic conducting medican to this composition, and to other substances, without the use of any extremal application, as black-lead, doc. The first stability of the scale had all sile, and contribute metal required to the scale processing them with sand and distinct acid; they are then washed and dired, and a copper wice being attached to them, they are placed in a maintail scale and an extra transfer in the same solutions of the metal required to the deposited. The entire article is then seem solution, is connected with the process is processed in the latter; to the series contribute to the batteries, the chipset being to decompose the milk then some solution is the newton to be heated with the number of actinity on the other. The schedul with the number of actinity is not decompose to the metal requir

#### MINING CORNESPONDENCE.

ENGLISH MINES.

BOLINDON MINES.

BOLINDO

wide, producing stones of ore, and has a kindly appearance.

T. RICHARDS.

TAMAR SILVER-LEAD MINING COMPANY.

April 10.—In the 135 fathom level the lode is eighteen inches wide, producing good saving work. The 125 fathom level is not so orey as atated in my last report; it is now about one foot wide, producing some ore, but not rich. In the 135 fathom level the lode is in slidy ground, that disorders it for the present. In the 105 fathom level the lode is two feet in width, composed chiefly of fluor spar, intermixed with silver-lead ores. In the ninety-five fathom level the lode is two feet wide, aix inches of which in good saving work. In the seventy-five fathom level the lode is two feet wide, aix inches of which in good saving work. In the seventy-five fathom level the lode is just the same width, composed of fluor-spar, with a small quantity of ore. In the fifty-five fathom level the lode is eighteen inches wide, chiefly composed of capel and fluor spar, with a little ore. In the forty-five fathom level the lode is shout also inches wide, producing ores, but rather poor. In the thirty-five fathom level the lode is two feet wide, composed of fluor-spar, capel, and silver-lead ores. At the north mine, at the thirty fathom level, driving south, the lode is two feet wide, poor at present. At the same level, driving south, the lode is two feet wide, poor at present. At the same level, driving south, the lode is two feet wide, producing work, and of much the same appearance as the thirty fathom level, driving orth. J. Sprague.

connusian Mining coupant. J. Sprague.

Connusian Mining coupant.

April 10.—The lode in the seventy fathous level is much the same size and character as has been reported on for some time; we have several fathoms more to drive to pass through the barren run of ground. Our sixty fathom level has a good oppearance; we are passing through valuable ground; the lode is the present end is about one foot and a half wide, good work, and improving daily. You may observe, by the former reports, that we calculated to have met with this run of lead long ago, but its unusual rapid inclination has caused several fathoms more to drive than we expected; it is now found twenty fathoms further west in the sixty than it was in the fifty fathom level, but this will make it more valuable, as we have twenty fathoms in ten fathoms perpendicular. The lode in Murray's shaft is three feet wide, yielding stones of lead. In one of the pitches in the back of the sixty fathom level we have a lode worth 55f, per fathom. We shall sample on Friday next about sixty-three tons lead ore of good quality.

J. Wenn TREGOLLAN MINING COMPANY.

have a line would have of good quality.

TREGOLLAN MINING COMPANY.

April 10.—The lode in the sixty-two fathom level, east of Baker's shaft, is much as last reported—approductive. I have set to drive north to cut the lode in this end. The lode in the winze, sinking in the bottom of the fifty fathoms level, on the north part of the lode, is one foot wide, producing saving work, but not so good as last reported; the lode is not yet cut to the west of the winze at this level. The tribute pliches are much the same as on setting.

H. WILLIAMS.

day.

ODNSOLIDATED TRETGIL MINING COMPANY.

April 10.—We have finished cutting the plat, &c., at Henwood's shaft, and have now began to sink under the fifty fathom level, also to drive east and west at that level. The lode in the forty fathom level, east of Henwood's shaft, is nise locks wide—good tribute ground. The Blind Will's lode, at the adit level west, is at present disordered by a cross-course. The tis lode at the adit level, cast of Morcom's shaft, is much as last reported—tribute ground. We have commenced atoping in the back of the seventsen fathom level, above the adit; the lode is about two feet wide—good tribute ground for tis.

H. Williams. J. Morcom.

H. WILLIAMS. J. MORCOM.

UNITED HILLS MINING COMPANY.

April's.—In the seventy fathous level, cast of Williams's shaft, the lode is five and a half feet wide, two and a half feet on the south part good ore. In the seventy fathous level, cast of castern shaft, the lode is five feet wide, producing bott little, ores. In the city fathous level, cast of castern shaft, the lode is five feet wide, producing some good ore—improved since last week. In the sixty fathous level, west of diagonal shaft, the lode is six feet wide, two and a half feet ore, the oceth part of fair quality. Diagnosal shaft is nicking under the sixty fathous level, cast of castern shaft, the lode is three and a half feet wide, two and shaft feet good ore. In James's shaft, sinking under the fifty fathous level, the lode is four and a half feet wide, one throughout, but course in quality. In the forty fathous level, east of castern shaft, the inde is one feet wide, producing appearance. In the cross-cut, ourth of James's shaft, none branches have been cut, but none worth deliving on. In the twenty fathous level wat, at Wheal Sparrow, the lode is eighteen inches wide, one foot ore of fair quality. In the adil end, west of Wheal Sparrow, the lode is one foot wide, producing but little ore. W. Richas also. N. Landoon. S. H. Phance.

WEST WHEAL JEWEL MINING ABSOCIATION.

WEST WHEAL JEWIL MINING ASSOCIATION.

April 10.—The ground is the clubty-five cross-out, south of Buckingham's, is a little more favourable for delving than when last reported. The seventy cast, on the south branch, is worth 6t. per fathom. The seventy cast, on Wheal Jewel lode, is worth 5t. per fathom. The seventy west, on the same lode, has not been taken down since our last, but we have est into it, and it houks well. We have reasoned driving cast on Buckingham's lade, at the fifty-seven cast; it is eightern locken wide, worth 6t. per fathons.

FURTHER LEAN.

THELEGIS CONSOLA MINING COMPANY.

Frankling consola minimo company.

April 2.—The righty east of Christon is one fact wide, producing stones of ore. The righty west we are a til cross-cutting. The seventy west is large, and worth 31, per fach on. We are assking a winns in the seventy east, but have not hegun to take down the hole. The sixty sent is those fact wide, hindly. In the sixty west the hole is hore by a branch of a cross-course, but we shall, no doubt, see it in a day or two. The fifty west in two feet wide, with stones of ore. At G. of France, the fifty west in two feet wide, worth 61, per fathem; this level cant is righteen inches wide, worth 51, per fathem. The forty-four west is three feet wide, worth 71, per fathem. W. Symons.

## POREIGN MINES.

Morro Folks, Jon. 18.—The average number of heads working during the last ten days was \$7.46. There is much less killes coming from the mine

retrieve.

Miss.—The sinking in the Gamba has been impeded for want of which are now ranky. The sump, twenty-four fact in diameter, where which are now ranky. The sump, twenty-four fact in diameter, where

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# 10 to 10 to 14

ELWAY AND COMMERCIAL GAZET.

Cata Brames, Jes. 33.—I introduct forwarding to you to-day a full report from the mining captains (Williams) of the present apprarances in the mine, but defer doing se till the next post—vishing to afford him time for his attact, ment to be clear and in detail. At the same time I ramont let the earloard wretched gold report leave without some comment. You will observe that, from the beginning of the year, the ore has become poorer and postere, until this week it has reached the average of sixty tons to the pound of gold—that from the bottoms being 364, and that from No. 6, in the vicinity of the Ohon Mejor and Minor, 170 tons; of the latter, however, as we are not fairly in the Ohon, I will not all present apeak, but call your attention to the former. At the time of Captain Catesworth's departure the lode, in sloking, was of a hard firm nature (had become more so under the floors passed in October) and rich; it, however, continued so for a very short time, and is now much mixed with hills, particularly on the sasih wall side, and is in other respects disordered, and as had looking as it was then good, and, withal, is narrowing in. It also tears body; and I may here observe, that, to this fact, and to this only, is the falling off in the supply to be attributed. Now, as from this part of the mine the best reture has always been expected—looking at what it now is, it cannot be disquired but that our position is at this moment very unsatisfactory. It may be, and I hope and treat will be, that, in sloking, a change for the better will take pince; but I can only speak of present appearances, and they are, certainly, supromising caough. We are getting down as fast as we can, to prove what is before us, and are also driving the deep adit end west, to see what is there; hitherto, although the lode looks kindly, the samples taken have shown no gold. I am accretised the most rigid economy consistent with the well working of the establishment, and when the year's accounts are ready, I shall be

Gold return for four weeks to Peb. 3, 30lbs. 202. 4dwts. 3grs.; ie month of January, 34lbs. 11cg. 1dwt. 9grs.

MR. ALD. THOMAS WOOD AND THE TALACRE COMPANY.

MR. ALD. THOMAS WOOD AND THE TALACRE COMPANY

A meeting of the committee of the Court of Aldermen took place at the Chance
Chamber, Galidhail, so Hatmany, for the purpose of receiving a communication
from Mr. Aid. Brown, the chairman of the committee appendix to investigate the
charges made against Mr. Aid. T. Wood. The following aid-trees were preentlike Peter Lacric, Sir G. Carrell, and Meases. Gibbs, Parsecomb, and Hooper.

Mr. Aid. Bancw and, the had called the committee to eitend with them he should
at once comply with the order. (The letter was then road,—file P. Lacric 1 in Mr.
Asharet here 1—Aid. Bancwar: He is not. He had meetly summoned the committee
together for the purpose of sixting what had occurred. From the small attendance
of aldermen, some being engaged at the Justice-room, and others at the Crimina
Court, be thought they engit not to proceed further than to grow as to Mr. Ash
urst's attendance.—Mr. Latens the barriers's suggested that Mr. Adorest should
attend, with the minute-book, at the effice of the Town-derra, and that Mr. Aid
Haows could there canning the bench and the other achidits giving Mr. Aid. Who
the right to be present, for the purpose of seeing what portions were to be animited
Mr. Ald. Bancws considered that the best source of adort would be for Mr. Adort
urst to attend with the book, as he could not let if go one of his castody.—Mr.
Latens The reason why Mr. Advance counce to adopt would be for Mr. Adv urst to attend with the book, as he could not let if go one of his castody.—Mr.
Latens The reason why Mr. Advance counce to adopt would be for Mr. Adv urst to attend with the book, as he could not let if go one of his castody.—Mr.
Latens The reason why Mr. Advance common part with the book is, that an isset
is to be tried in Ireland; and he will be called to prove that it was sever out for the
possession.—Mr. Wirst (Add. Woods's solicitor), cossiphisted that the subside is to be tried in Ireland; and he will be called to prove that it was never out to fire
possession.—Mr. Ala

apers abough he homoclustely perioded mt mg. Mr. Aid. Commance natured the rooms, he had, do not y as andrously, heteriored with it proposedings?—The Thoras Chang. Cortainly rous; made be showed the the question such an Wooms said be showed chipped to their, as the Commanus. Pray crace the question, his, and out of the chancier, and these put on end to

## THE ANCIENT ALCHYMISTS.

We extract the following interesting remarks from fiir D. Brewster's set, The Martyre of Science. They once in the life of Tycho Brahe :— "The conduct of the assemble sichymists of the thirdworth, fourteenth, and M. Lowing Man,—The winking in the Grawla has been imposed for want of paging, which are now ready. The want, wenty close first in diameter, where the last is only two feet wide, is bring reduced to more reasonable limits, ag also feet. I have had seened the more reasonable limits, age also feet. I have had seened the more reasonable limits, age also feet. I have had seened the more reasonable limits, age also feet. I have had seened the more reasonable limits, age also feet. I have had seened the more reasonable limits, age also feet. I have had seened the more reasonable limits, age also feet. I have had seened the more reasonable limits, and the creaming the more reasonable limits, and the creaming the more reasonable limits, and the creaming reasonable limits and the creaming the more reasonable limits and the creaming reasonable limits and the creaming reasonable limits and the common of the common

MINERS INSURABLE.

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MINERS INSURABLE.

MINERS INSURABLE.

With the vest increase which during the last thirty years has taken place in the number of assurance associations, as well as the greatly extended advantages held out by them to the Acadéty assured, it is singular that up to the year 1841 no society existed, by which persons even slightly afflicted by disease, could avail themselves of the benefits secruing from insurance; this seems the more singular when it is called to mind, and it has long been known, that the fluctuations in mertality, arising from chronic, and well understood diseases, are less than the fluctuations in the general mortality, and, therefore, tables can be as securely and accurately calculated for diseased lives (taking the average) as upon sound ones. The Medical, invalid, and General Insurance Society, whose advertisement appears in our columns, has supplied this deficiency, and is established to throw open the benefits of insurance to all who may choose to avail themselves of them. Nearly all trades and mechanical operations have their peculiar maladies, and particularly those whose interests we are more immediately called upon to advocate—the working miner. From the nature of their employment, the fatigue of ascending and descending conmous lengths of ladders, and working for hours in deese and impure atmospheres, they are all naturally predisposed to, if not actually labouring moder, pulseonary complaints, and other diseases of the chest. Many a provident miner would gladly have availed himself of the advantages arising from assurance, but if at all afflicted, as before observed, he was entirely excluded from its benefit; this society, however, offers every facility, the tables are calculated in such manner, that each class of insurers are secured their fair proportion of the profits, bonuses, &c., the prospectus of the institution is on very liberal terms, and, from the clevated names associated with the undertaking, the public have ample security that the pri their incomes, can spare a proportion, and are anxious for some fur provision, either for themselves or families, to make inquiries, obta-prospectus of the regulations, and we think they will be fully satisfie the beneficial and profitable operations of the Medical, Invalid, and Ge-ral Insurance Society.

the beneficial and profitable operations of the Medical, Invalid, and General Incurance Society.

Cardicanshum Mining Invalidance.—Mining in greeful is in a prospecius state in this county—Comystwith still sends good returns to market, and Oogican goes on very well; there has been an idle report that this wine has been impoverished, but we can state, from the best authority, there is no foundation whatever in the report. The Lieburne Mines are not better than they have ever been—yielding more ore. A short time since there has been a discovery of a large body of ore in Comusebou, the property of Pryce Peyre, Esq., M.P., where several thousand pounds have, in the most spriled unancer, been invested by John Horridge, Esq. Among the mines appriled unancer, been invested by John Horridge, Esq. Among the saince on opening, we hear that there is much spirit shown in the Cardigan United Mines; among which we hear the Comercial looks very well, so does that of Llanfair Clydogan; it he last yields a considerable quantity of rich silver ore——the quantity of which is the richest in Cardiganshire, yielding so on, of all-ver to the ton of lead. The good which mining does to the county appears, from the fact, which, if necessary, we can prove from the books of the different companies—that within a circuit of fifteen mine around Aberystwik, 50,0001. a year is paid for labour nione.—Silveron.

Swedenson that with the time of the county appears from the produce of which goes to England, have yielded during this winter no less than 50,000 ship prouds (qy, tons) of ore.

Corpus Mines as Statev.—Eight Cornish miners took passage on Mandany in the Greaf Liverpeed stemmer on their way to Sicily, where they are engaged to investigate and work some copper locia which have been discovered in that island.

Coat is Cissus, having analysed the different sorts of onal found in the result shows that the best flustent sorts of onal found in the result shows that the best flustent sorts of onal found in the result shows. A fire Production of s

PANYDARRAN IRON-WORKS.—We are concerned to state that the exsupplex of reducing wages are to be followed also by this respectable firm.
The masters and their agents know partly of the privations conduced by the
men and their families. We are agre that acthing but the distressed state
of the trade compets them to adopt such unpleasant steps.—Marriage Guardian.

The masters and their agents know party of the print of the distressed state of the trade compels them to adopt such amplement steps.—Merchy Guardian.

Serval. Towards' Collegay.—The rope of the incline through the tumbel from this collect to the river Tyne, at the North Shore, broke on Naturday, whilst ion waggons were descending. The waggons there at liberty reasons into the circy, where a vessel was being loaded, over which a portion of them river compeled the water, and the remainder were induced on the dech. Hoppity on lives were lost, though the damage done was considerable.—Newcastle Journal.—[We should recommend the use of the wire rope in all cases of this kind.—En. M. J.]

DRAADTOL COLLINGAY EXPLICATION.—At libermost Main Coillery, at Westlemgine, about two miles from Newcastle-open-Tyne, the property of John Grone, Eq., and partners, one of those dreading outcomers, that, by which twenty seven persons lost their lives, and also of cover more are seriously injured. The calestrophe, though thus mediatelooly in its results, decreased consument to have been marked by any of those violent and appating discount of the results of the collection of the pit ind to expendence which have frequently attended actidents of a similar uniter in the collection of the twent the month of the pit ind on one caption that such an accident had decoursed until a boy was drawn up mark here, and other more than they were made award of but a shall asked of the calculation. The mea complexed at the month of the pit ind on one capture, and even then they were made award of but a shall asked of the mine, where the captured more from the piters of the piters of the collection of the pi

#### MESTINGS OF SCIENTIFIC BODIES

	IN THE BUSUING WEL	KK.	
ACCIATT.	PIACE OF MESTING.	BAT.	
wiedles	Bult-court, Figet-street	Monday	
Linewan	Robo-square	Tuesday	. S P.M.
Morticultural	Ti. Regnat circuit	Incolay	. 2 F. M.
London Electrical	Adelaide elrect	Tuenday	
Chemical	Bociety of Arts, Adelphi	Tuesday	. B P.M.
Soutisty of Arts	Adelphi	Wednesday .	. 74 P.M.
London Institution	Plantury-circus	Wednesday	. 7 P. M.
Microscopical	21, Repost-street	. Wednesday .	. 7 F.M.
Botanical	36, Badford street, Cov.	g. Friday	. S P.M.
Moral Asiatio	14, Grafton-street	Seturday	. 2
Boral Botanical	Regent's park	Salueday	4 F.M.
Wantminster Madie	rai Eactor Hall	Radueday	
Mathematical			F. M.

#### PUBLIC COMPANIES.

Praston and Longridge Railway Preston April	17	II.	
Equitable Severs. Interest Society 16, Lancaster-place, Strand	2.00	seen he a	h
Warwick and Birmingham Canal., Woolpack Inn, Warwick			
Warwick and Naplem Canal Woodpack Inn, Warwick			
Independent Gan-Light & Coke Co.London Tavera			
British Iron Company Castle-court, Budge-tow			
Real del Monte Mining Co 1, Duke street, Adelphi			
Blassaron fron and Cosl Company Offices, 4, Paneras lane			
London and Birmingham Railway Easton Hotel May			
West Wh. Jewel Mining Assest 23, ThreudnessRe-street	. 8	12-	

Yarmouth and Norwich Railway, .3/, per suare. April 15.... As former calls. Tamar Silver Lend Mining Co. . bf, per cent. . . . .. 44, Finsbury square ... 19.

## CURRENT PRICES OF STOCKS AND SHARES.

STOCK EXCHAN	GE, Salurday morning, Tweles o'clock.
Cansole Money, bd. 7  Bitto Account, w \$  Nor. 85 over Conds., 1075 \$  Back Stock.  Exhoquer Bills, 67 60 pm.  Eshapar Bonds, 5 per Cond., 1643 \$4  Brant, 5 per Cond., 74  Franch, 5 per Cond., 74  Franch, 5 per Cond., 74	Datele, 25 per Court, 165 § Dittle, 5 per Court, 165 § Dittle, 5 per Court, 165 § Recoine, 5 per Court, 116 14 Spanish, Actives, 5 per Court, 245 § Dittle, 5 per Court, 245 § Chill, 9 per Court, 30 9 Colombian, 6 per Court, 30 9 Meximan, 5 per Court, 30 5
Portuguese, 5 per Cent., 40 ;	Paru, 191 214
	TOTAL CONTRACTOR OF THE PARTY O

PROMISSORY NOTES AND BULLION.—An account of the average aggregation of the PROMISSORY NOTES AND BULLION.—As account of the average aggregate assessed of presciously producery notes, payable to bearer on demand, which have been in elementaries in the United Ringdown, destinguishing those elementaries by the Rank of Ringland, by private banks, and hypothesis to the Rank of Ringland, by private banks, and by private banks, in England and Walon, by the banks in the Route banks, and by private banks in Iroland, and of the average assessed of testiline in the Bank of Regland, during the four verses and single the 1st day of April, 1861 - Evertame the Bank of Regland, 18,650,0004. petrate, and by private, and private banks, 2,512,504.—Irola, in City, 1861. Exchanged, 18,650,0004. petrate, and bint stock banks, 2,512,504.—Irola, in City, 1861. Registed, fills, and the Rank of England, 1,520,0004.

Ranks of England, 11,520,0004.

Ranks of England, 11,520,0004.

Ranks of England, 11,520,0004.

Ranged and Traces, 4,571 id.

NATIONAL DEET.—The Lords Commissioners of Her Majordy's Treasury basing cartified to the Commissioners for the Reduction of the National Detail payable state of the next 10th George IV. c. 27, eer. I. that the actual expenditors of the United Ringdown of Grand British and Ireland exceeded the actual expenditors of the United Ringdown of Grand British and Ireland exceeded the actual expenditors of the United Ringdown of the America and Ireland exceeded the part of the Commissioners for the Reduction of the National Detail to epice of Commissioners for the Reduction of the Ranks (Parking Payab, under the previous at the said and, between the Pith day of April, each the Regish Mint price of National Detail British April of James will be Rinking Payab, under the previous at the said and, between the Pith day of April, each the English Mint price of Parkins and Parkin in 15 per mills, which, at the English Mint price of

National Italia affect. April 6.

B. Pilotta M., Controller-General.

The premium on gold at Parts is 15 per mille, which, at the English Mint price of 2. 17a. 10id, per manus for electrical gold, given and, at the English Mint price of 2. 17a. 10id, per ones, descripe in Londons at about being 20 07g, it follows that gold is 0.70 per cent. descripe in Londons than in Parts.

By advices from Hamburgh the price of gold is 450 per mark, which, at the English Mint price of 2. 17a. 10id, per center of gold is 450 per mark, which, at the English Mint price of 2. 17a. 10id, per center of another gold, given on exchange of 1.2 10g, and the each sarge of Hamburgh on London at short being 16 11g, it follows that gold is 0.79 per cent. descripe the London that in Hamburgh.

The courses of archivery at New York on London that in Hamburgh, and the per of a change between England and America being 10id 23-49 per cent., a failure that the academic is 400 per cent. a giological Kagland. But the quoted academic that the above militaries.

LATERY PRICES OF IRREST STOCKS.—2 per Cont. Commons. 1041. to 1044. 34 Blocks, 18141. date New. 1816. 10141. 3 per Cont. Commons. 1041. Bank Blocks, 18141. date New. 1816. 10141. 3 per Cont. Debendares, 1041. Bank Blocks, 1941. Bernell Bank, 1941. Perceipnist Bank, 401.—City of Dubins Steam Co., 10141. Blocks (1941. Brown Date). Both Mills Brock, 1941. Brown Date (1941. Brown Date). Brown Date (1941.

BRINFOL, Farnar, Cor market has been decidedly flat this week, and but few hargains done in railways, at a very prices than my last.—Great Waxierin Railway, 5tt. to 10tt., dotto, fairway, 6tt. to 4gt., dotto, 6ttho, 17th to 1st., Bristolian Galica (Baster, 18th., 17th to 1st., Bristolian Galica (Baster, 18th., 18th.

611. ANDOW. Two arms v. - Mailmethney Hallway, 774.; Dunder and Arbennath, 704.
Edindering and Chaspow, 504.; Garmick and Glusqow, 514.; Obseque and Green.
104.; Glusqow, Paintry, Elimarment, and Art, 541.; Monthland and Eritin-Hillst, 514.; Monthland, 704. vi Standanian, 704. vi State A Colfman, 504. - J. Monthland and Eritin-Hillst, 514.; Monthland, 704. vi Reynd, 166.1. British Lines Company, 7164.; Commercial, 1694.; Glusqow Union, 514. - Noval Hillstein Company, 7104. Commercial, 1694.
1094. Glusqow Union, 514. - Novalth British Fire and Life Immercial, 1044.; Calebanian Fire and Life Immercial, 1044.
1094. Calebanian Fire and Life, 104. Smooth Marine, 14. Reynd Eachange, 624. - Old Clyde Hillyring Company, 504.

Simpling Company, 500—Short's from Company, 300.

REWCANTE, E. Taraamay. — There is but little alterations to node in our share make on. Bank observe one settled heavy. — The North of England Juint Stock Bank, 556, Northeam-bushed and Darbace District, 64, 1 November & Shortheam and Darbace District, 64, 1 November & Shortheam and Darbace & July 1 November & Shortheam & Short

BIRMINGSLAM, Ymwnanar, London and Streetopham Sallwar, 7115, by 2125.
Landon and drightine, this; London and South. Western, this to this; thought western, but to took. Streetopham and Deather, all to this; Streetopham and Chousenestor, the total, Streetopham and Chousenestor, the total, Mandager and London, 7th, to 215, Sallahangh and Chousenestor, this, to this, Mandager and London, 7th, to 215, Sallahangh and Chousenestor, this, Streetopham Sallahangh and Chousenestor, this, Streetopham Sallahangh and Chousenestor, this, to be but, Streetopham Wadon Works, Staff, Director, them Chair, Streetopham and Staffordshire, one, to all, the Union Mid, Dave differ, 1gt.

## COAL MARRET, LONDON

COAL MARRET, LONDON.

MONDAY. Prince of roads per ton at the stone of the coarted. A lan's Main 14 C. Car's Harting 16 C. Houses Main 18 L. Davisson's West Starting 18 C. Marting 16 C. Marting 18 C.

Which Spatings Stronger is to Development to the Manager accrees, 57%.

Which Spating V. Giller-marchane is to Standard V. Ward Marching 18 St. Cuer's Harthey 5.5 St. Spatings in Ward Marching 19.5 St. Spatings V. Spatings V. Ward Marching 19.5 Spatings V. Ward Marching 19.5 Spatings V. Ward Marchings V. Spatings V. Spatings V. Ward Marchings V. Ward Marchings V. Ward Marchings V. Spatings V.

## THE LONDON GARRTTS-BANKBUFTS.

THE LONDON GARRYTS—SANRBUTTS

FURBLIT - W. Mrd. Request street, increase—J. Brown. Green hars, Londons, commenced Beddens, New Stock Gillerie, comic secondant—J. Chimesing, Tuftrockers, continued and Reddens, Tuftrockers, and the street, and the street, the

#### SALE OF COPPER ORES IN CORNWALL

Mines.	Tons.	Price.	Purchasers.	Mines. To	164.	Price.	Purchasers.
Friendski	p 131	£4 14 6.	Process.	Botallack	H . I	2 3 6	Williams.
4itte	77	4 8 5.		ditto 4	6 . 1		English Co.
ditto	54	3 5 6.		Darlington!	14		Virians.
ditto	204 .	2 5 8.	, introde	ditto (	5 . 1		English Co.
ditto	284		Nevill & Co.		3 :		Nevill & Co
W. Pringe	H 85	4 13 6	Freemans.		74. 1		Freemans,
ditto	61	# 19 B.			74 1		P. Grenfells
ditto	24		. Nevill & Co.	-	6 I	18 6	Preemans.
ditto	31		. Williams.		D 1	6 1A M	and the same of
Wh. Virgin			. Virians.		10 3	1 15 8	P. Grenfelle
ditte	100	6 17 6.	English Co.		5 !	1 15 0	. Nevill & Co
ditto	196		. P. Grenfelle.		A 4	1 14 9	P. Greufella
ditto	60		VITTAMA.	Trenwith	m		English Co.
Fower C.	119		. Williams.		6 1	1 1 0	Vivians.
ditte	114 .	à 10 6.		Craughrawsi	4 (		. English Co.
ditto	Bt		. Merill & Co.		10 . 1	1 10 0	-
ditto	21		William's.		10 1		Viviana.
W. Provid	1. 95	A 11 A.	Nevill & Co.		194 I	12 6	English Co.
ditto	P	9 16 6.			91 1		Williams.
ditte	48	7 18 8			26		. English Co.
ditte	24	4 7 0	-		M !		. P. Greufulls
witter			Freemans.		et 1		. Nevilla Co.
ditto	15		Navill & Co.			1 6	English Co.
Botallack	1000 11		Williams.	Spears Moor	Her 1	18 6	Freemans.
ditto	20	11 / 6.	English Co.				
			TOTAL P	RODUCK.			
Wh. Pries			C 21.00 14 6	Providence I	Mines !	24	

Average standard, 104f. 2s.—Average produce, 8g.—Average price, 5f. 19s. 6d.— Quantity of ore, 2543 tons.—Quantity of fine copper, 213 tons 19 cwt.—Amount of money, 15,285f. 12s. 6d.—Average standard of last sale, 107f. 3s.—Average pro-

#### COMPANIES BY WHOM THE ORES WERE PURCHASED.

	E CHES		A.000	254.00		
English Copper Company	2334		23194	14	4	
Vivian and Buns	206					
Freeman and Co	142	*****	8071	11	16	
P. Grentell and Sons	2214	*******	TILB			
Sime, Willyams, Noville, Druce, and Co	4014	** *****	2419	10		
Williams, Foster, and Co	4724	*****	2554		4	
	MINISTRA		-	-	-	
Total	75.47		FES. 283	6.20	4	

Copper ores for sale on Thursday maxt, at Andrew's Hotel, Redruth.—Mines and Paresia.—Treasresse, 602; Par Consols, 224; Fowey Consols, 244; Holmbush, 205; West Caradon, 163; Wheal Gorisand, 83; Charlestown United Mines, 35; Grambler and 86. Aubys, 52; Wheal Burrow, 24, -Total, 1686 tona.

Copper ores for sale on Thursday work, 24.—Total, 16se tona.

Copper ores for sale on Thursday work, 24 Andrew's Hotel, Redruth.—Mines and Parcels—United Mines, 144, South Caradon, 84; Trebedies, 246, Halianbragie, 18te; Tresavena, 241, North Bowns, 221, Fowey Consols, 211, Treleigh Consols, 119, Donnio's Ore, 20; Wheal Bony, 17; Wheal Uny, 16.—Total, 3189 tons.

QUARTERLY SALE OF COPPER ORES IN CORNWALL .-- Copper ores, 27,215 (31 cwts.)—Fine Copper, 2809 tons 15 cwts.—Amount of money, 212, e42. 3s. 4d.—Average standard, 1111. 5s.—Average produce, 73 & 1-16th.—Average price per 21 cwts., M. 14s. 4d.—March 31.

#### SALE OF COPPER ORES AT SWANSEA.

in-166	E-ma	Frances	Frank.	7900		Mine	Fine	Penning	Brand	Free	
Colore			. 94 .	. 9 (		Cohee			507		-
40000			264.	. 9 1	6 6	Knockmaho			212.	# 7	- 1
4000049.		124	. 214	. B II	2 0	ditto	. 100 .	. 7	1074	A A	-
distr.	71	. 214	. 90 .	. 16		ditte	101	. 64	107	5 2	- 1
ditto.	48	. 219	. 831.	. 10 11	1 4	CIRE	. 86	114	98	# 15	1
diffic	TO 6	124	. 957.	. 9 12	0 3	ditto	. 85	104	un1	7 14	1
ditto .	. 102	. 12	. 946 .	. 9 1	6 6	ditte	. 80 .	104			-
		194	. Dig.	. 9 11	7 19	ditto	. 22	104	Deg	# 3	- 1
ditto	155	124	. pos	. 9 11		ditto.	74	108	204	8 5	- 1
diffe.		2 4	MINA.	. 17 4		Santiago		152	934 .	12 W	1
ditto	10	140	. 94 .	. 11 13	2 6	ditto	104	188	104 · ·	12 #	-
ditte.	98	12	. 1912	. 9 6	0	ditto	100	16	W24	IZ Ic	-
ditter .	107	. 114	907	. 9 4	4	ditto	91	14	and it		-
ditto	16	114	. 1944.	. # 17	- 10	ditto	368	34	mag	20 14	-
ditte :	95	. 118	. 107 .	. 9 4	6	ditta	100 .		BOA .	20 2	-
40000	101	124	, mig.	9 11	6	ditto	24	748	ma 2		1
ditto.	. 79	124 .	. 100 g	. 9 11	161	#1880		742	991		-
ditter.	. 74		000	. 17 7	6	Bearbaven	120		100		1
dille.	70		. Mid.	0 11	6.	d2880	113		162	# 2	-
elitte.	40	. 244 .	. 101	16 3	- 01	ditte	96	100	B.44.		- 0
MEETIN.		17 .	. 948.	0 7		diffe	72 .	104		7 12	ı
45750	. #10	. 12 .	pag.	9 7	0.	Skull Mine	#4		140	1 12	0
41550.	64	. 128 .	446	. 9 15	-	Couleen	8.7		40.00	9 8	6
ditto.	41	204	. 974	16 2		Cronebane.	14	4.5		4 9	-
distins.	6.1	. 72		17 11	0/	skitto			Ites .	4 2	-
diffe.	41	128	. 1964 .	165 1	0	Kenmare				8 18	ù
distant.	. 10	190	1964	18 10		Connectes				100	â

# ditto... 9 .. [9] .. 90j., 15 17 6 Connecres .. 15 .. 40j ditto... 32 .. 22g .. 90 .. 17 19 6 Total tons, 4000.—Total amount, #43,633 1 0

		147	TAI		MODUCE.				
Colore	5971	472197	9		Conheen	87	#127	19	
Knockmalom		54.7	- 6	. 0	Cruneliane	24	146	14	
Santiago	718	11500	1.0		Kenmare	31	275	18	
Boarbaron	401	2194	1.00	6	Consorrer	13	Sed	10	0
Strait Mine		1.54							- 1

## COMPANIES BY WHOM THE ORES WERE PURCHASED.

	Toma.		Am	IO BE	M.	
English Copper Company	401		COLUMN TO SERVICE	2		
Freeman and Co	21/16	100 0 1	296.5	10		
Alexandii and from	967 t		9-5/100			
Sims, Willyams, Naville, Druce, and Co	42.4	*******	34053	10		
Vivian and Some consequences therein	407		B417	2.00		
Williams, Fuetor, and Co	1204		1.67900	- E		
	1000000		Negovieros in	Confession	week.	

£41,634 1 0 Copper even for only April 24.—Santinger 1 [0, ditte 109, diffte 50, diffte 57, diffte 79, 950, 71, diffte 57, difft

## WORK PERFORMED BY CORNISH ENGINES

The number of pumping engines reported for the month of March is at - the qu tity of coals consumed being east tons, lifting, in the aggregate, 23,000,000 tons of water is fashoms high—the average duty of the whole is therefore, 24,000,000 line inted I foot high he the consumption of I bushed of cont.-The bodiers are leaky at One Engine, East Wheel Store, and at Ool Engine, and Vigory's angles, Pollerous,

(The same) particulars will appear in our seat.)

## LATEST CURRENT PRICES OF METALS

4	#		4
brancas Foreign ton 2 0 to 20 0 0 Corean Chi per th.			-
" Fur ancresy 2 # # 21 10 # Cake p. ton # # # to	90	18	19
Fran - Mag Salt, about	96.		- 14
Question 100 00 00 00 00 00 00 00 00 00 00 00 00	940		4
State Singlish bar, &c. p. ton 5 7 4 Tru-English, blocks, &c cwt.		12	8
. Nam rods 0 0 0 0 0 0 0	3	9	-
. Morga 0 0 7 10 0 Freeign, Sanca 0 0 0	9		- 0
Minute			-
Carpo in Water 4 1 2" 4 12 2 Perurian 4 6 5	- 12	200	
Fig. No. 1, Walon o o d E 10 d Tin places, No. 10, p. bon 1 & 9	Ä		
No. 1, Clyde o c a 2 & c No. 1X 1 11 0	- 6	14	10
Port, Swedisk if to 0 to 15 to wastern be p. Sea boss	-		
Brancing, cours	5.6	100	10
Elica, patent	100		- 9
Coupled 19 to 4 Reforming the state of	DE		
Archangel men white	24		
Propin Swedich bog p. ton L' to 4 Pho Leau-Sugfish 17 6 4		116	
Facinet 1 5 5 mm . Season . 5 5 5	EP-		
Consess - Brailed shoulding th. 5 M 4 . American . 5 F 5	12		
		-	-

referred of the empire's of gold and nilter from the port of Limites for the week each ong Theoretic; and

Milmer	Owner.	No	Chinds		16	-	-
-	360		Burlingstown	45.10	Ri,	Mbr	
	001		Strong Konny w			(Marrie)	- 00
-	480		Managhines		(ML)	BOM.	660
Milmer	See.	88	Bounday	MAN SECTION	Dies,	-	

#### PRICES OF MINING SHARES

An arrival from the Brazile during the past week has brought advices from the Brazile during the past week has brought advices from the Brazile during the past week the brought advices from the facility of the state of the sta

	TIBH MINES.	BRITISH MINES-continued.
	Company. Puid. Prio	
500 Angles	y	
4,000 Bedford	Id. A	
100 Botalia	k	
	iron 70	4,000 United Hills 3 34
	da 80	6,000 Wicklow Copper 5 . 12
	130	3,845 West Wheal Jewel 10 15
		120 West Trethellan 78 90
	** Id	59 Wheal Vor
	toli MiningAm. 4 2	1,000 Wheal Bandon 6. 6
	an Lead Co 2 84	1,000 West Carbery 15 12
	Kitchen 50	POREIGN MINES.
112 Charles	lows 500	The state of the s
	raws 40	5,000 Alten Mining Company 134 44
	15 154	10,000 Auglo Mexican Co 100 81
	County ConiCo. 57	3,374 Do. Subscription 25 3
128 East Po	od 230	2,000 Bolanos
100 Great C	omnoin W7 606	Ditto Scrip 15 42
10,000 Hiberni	am	0,000 Brazilian Imperial 21 84
	ah 14 40	0,000 Bolivar 20
	ark (Guernary): 11	10,000 Ditto Scrip 10 . 2
80 Levant	450	10,000 Cataliranca-Brazilian Las
	Co. of Ireland 7 121	Company Jobs 4
129 Mostyn	Mines 100	12,000 Cobre CopperCompany 46 23
	oekeaf 300	
	Crasola 10	0,000 Copiapo Mining Co 134 . 9
e, age Rhymas	y iron 10	20,000 General Mining Asso. 20
1,000 Hoaring	Water # #	5,851 Mexican Company 500
	aradon 900	12,000 Mocaubas and Cocacs 25 46
	wan 10 14	
	toul Basset . — 506	Care and a care of the care of
h? Speach 3	foor 70	Ditto Loan Notes 150 150
133 Tregolis	·	7,000 Royal Santiaco 10 24
4,000 Treleigh	Consols 5 74	
	insols 3 91	10,000 United Mexican 46 2
6,000 Tinezoft		BlackScrip,addl.capital \$ 3
128 Treware	·	Red New Scrip 14. 4

#### DATEMAY SHADE LIST AND TO APPLE DESCRIPTION

Line.	Entire Lgth.	Now Open.	Present ac-		Val. of Share.	Last week's returns.	
Arbroath and Forfar Kailway	1.5	13	£ 136.705	25	22	£100 0 4	
Birmingham & Derby June.	4114	485	1,149,635	100	41	1093 13 6	
Birmingham and Gimecuter	86	56	1,460,651	100	50	1709 1 11	
Brandling Junction	25	25	454,824	80	-	782 13 4	
Chrater and Birkenhead	144	144	538,424	50	- 58	450 8 2	
Dublis and Kingstown	- 6	6	340,362	100	142	501 41 W	
Dunder and Arbroath	144	169	143,512	. 25	25	Property	
Durham and Bunderland	16	14	266,132	204	1.6	S# 1 0	
Eastern Counties*	126	81	2,494,954	23	10	2002 12 0	
Edinburgh and Glasgow	46	46	1,5 (5,597	50	491	2341 11 .	
Glasgow and Arr	61	49	266,594	56	40	1146 8 0	
Jimgow and Painley Joint	224	223	780,280	25	28	961 4 1	
id. June. & Chester & Crowe	11.04	1154	2,316,536	10u	2014	7474 7 0	
Breat North of England	74	46	1,201,471	100	604	1796 4 5	
Breat Western	1184	1184	6,549,624	65	944	12347 18 0	
fayle	16	10	175,000	160	200	Minute	
full and Solley	31	81 1	645,996	546	974	1004 9 3	
ancuster & Preston June.	204	294	435,300	42	274	-	
Averpool and Maschester	Ni N	.61	1,315,215	100	192	4013 16 2	
condon and Birmingham	1129	1124	5,922,812	1048	218	15496 W 3	
ondon and Blackwall	112	30	1,225,375	144	84	636 19 8	
condon and Brighton	84	54	2,58a,645	Box .	254	267W IS W	
condon and Croydon	164	104	656,x71	139	Ile I	235 15 .	
ondon and Greenwich	2.4	87	1,019,616	126	40	Medical	
condon and Bosth Western	922	928	2,589,854	584	65	5566 I 62	
danchester, Bolton, & Bury	10	10	777,957	93	5.6	504 19 11	
danchester & Birmingham	45	31	1,856,495	40	22	9505 15 B	
Innehester and Loods	89	40	3,450,264	70	61	4449 4 10	
didland Counties	87	67	1,484,144	100	414	\$383 E 64	
inwenstie and Cartisia	61	61	1,961,099	106	74	1449 11 1	
fewcastic and N. Shiolds	2	2	212,079	45	44	290 9 11	
forthern and Easternt	324	324	809,007	45	85	The same of	
forth Midland	728	774	8,822,851	100	654	9005 A A	
forth Unions	22	22	612,679	75	754	897 5 10	
reston and Wyre	16	19 1	317,496	50	14	164 6 11	
hofficid and Manchester	40	11	812,854	624	324	346 13 4	
outh-Eastern	97	61	1,993,967	44	26	2142	
aff Vale	80	36	3.59,729	100	-	570 14 6	
lafer	23	25	314,316	25	-	471 0 9	
lork and North Midiand	127	27	651.601	50	100	1161	

THAMES TUNNEL.

## JOINT-STOCK BANKS

Shares.	Company.	Paid.	Price	Shares.	Company. Paul. Price
	Australania			Ser, com	Liverpool Bornugh 10 144
D11, H00	Birmingham	10.	. 19	25,848	Ditto Bank of 124., 10
20,000	British N. American	40 .	. 43	13,560	Ditto Banking Co. 10 44
19,886	Challenh. & Girocreal		174	Self-Tiglis	Ditto Commercial 16 , 16
Edit, Bud	Commercial of Eng.		, 246	2,4403	Ditto Royal
1,001	Commer, of London	pair .	1.68	100,446	Manch. & Liver. Dts. 15 10
\$10,0000	Cotomist	38 .	. 184	100,000	Manchester 10 . 42
	East of England			\$10,000	Manchester & Saideld 10 . 10
	Olimproducehore			PR.800	National of Sectand. 174 13
4,790	London	19.	. Z4	10,000	Natl. Provi. England 16 164
	Lends Banking Co			65,005	North A South Walse 10 5
	Lords & West Bidling			211,014	Provincial of Ireland III 414
	Line don & Wastmittel.			10,000	South Lancastore 74. 44
<b>65.508</b>	Loughton Judget Street	100	. 124	200,14671	W of Eng A S. Wales D. 12; . 12
20,000	Exercises and Connecte	18 .	. 15	26,746	Claims of Australia 25 364
DV, 3600	Lorermonic Albiron.	29 .	194	65,760	Dates of London 10 14

## MISCELLANEOUS

Shares	Company.	Paid.	Price		Company.		
DELENK.	Angle Maximus Min!	16	3.8	2,110	Mangardurd Marks	L DBD	318
15,000	Auril Dev. Bod	196	- 8	1,000	Lowers Cura Each	Bek.	25
175, (\$100)	Asphadic (Claridge)			8,700	Longologe Chrostophere		18
175,0000	Assam Tra Company	184	48	1,000	Lorenteen Consumers.	30	18
1/5, (\$500)	Applical Agricultural.	make.	38	6,000	Los. Maren Int. St.	as. 18	
	Assetracione Treast Civ.			13,410	Mot. Pat. Wood Part	mg 4	
	Milconos Bastestes				Municipal & S. Anner		
	Dille Polisacens				Name Brownswick L.		
	Both Amore Land Co.				Pentimental A Cirian		
	Brid. Louis & Dire. Fred				Sprage, lat. Society.		
					Burrac Wat Stower		
	Stell, Bosch & Parl, Bull.						
6,315.5	Causalla Land Ch	. FIG	40	2,000	Mactiff's Iron Franch	3 M	-
B. (Rein)	S. C. of Con. Ame. Date	. 200	19	14,600	Stracik Australian		12
A. 1986	Description Passent Facilities	Bi	SAM		Ship Cresser Town		
	Republished Revent Serv.			A.(800)	Thismes Thursday	30	
	Class. Streets Harris.			DEL ROOM	The Discount's Last	E . 186	
	Character State Service			A 2000	W. Law & Woodles C.		-